### KV-32XBR26/32XBR36

RM-Y112A TDR-IF310/RM-Y113A

### SERVICE MANUAL



### US Model

KV-32XBR26

Chassis No. SCC-F16L-A KV-32XBR36

Chassis No. SCC-F16J-A

### Canadian Model

KV-32XBR26 Chassis No. SCC-F17L-A KV-32XBR36

Chassis No. SCC-F17J-A

### FN CHASSIS

MODELS OF THE	SAME SERIES
KV-32XBR26/32XBR36	
KV-27XBR35/32XBR35	
KV-27XBR26/27XBR36	

### **SPECIFICATIONS**

Television system Channel coverage American TV standards VHF: 2-13 UHF: 14-69

CABLE TV: 1-125

Picture tube

Microblack<sup>TM</sup> Trinitron® tube 32-inch picture measured diagonally 34-inch picture tube measured diagonally

Antenna 75-ohms external antenna terminal for VHF/UHF

Input jacks

VIDEO IN 1, 2 and 3 S VIDEO IN (4-pin mini DIN) Y: 1 Vp-p, 75-ohms unbalanced,

sync negative
C: 0.286 Vp-p (Burst signal)

75-ohms

Video (phono jacks): 1 Vp-p, 75-ohms

unbalanced, sync negative Audio (phono jacks): 500 mVrms (100% modulation)

Impedance: 47 kilo-ohms

Output jacks

MONITOR OUT

S VIDEO MONITOR OUT

(4-pin mini DIN)

Y: 1 Vp-p, 75-ohms unbalanced, sync negative

Video (phono jacks): 1 Vp-p, 75-ohms

unbalanced, sync negative Audio (phono jacks): 500 mVrms

(100% modulation)
Impedance: 10 kilo-ohms
AUDIO OUTPUT (VARIABLE)

(phono jacks)

More than 900 mVrms (100%

modulation) at the maximum volume

setting (variable) Impedance: 5 kilo-ohms

AUDIO LINE OUT

(phono jacks)

900 mVrms (100% modulation) Impedance : 5 kilo-ohms

- Continued on next page -

TRINITRON® COLOR TV SONY®



### KV-32XBR26/32XBR36

RM-Y112A TDR-IF310/RM-Y113A

Speaker output

13W×2 (8 ohms)

Speaker size

Tweeter 25 mm (1 in.) × 2 units

Woofer 100 mm (4 in.) ×2 units Audio frequency response

Tweeter 8 kHz-20 kHz

Power requirements

Woofer 50 Hz-8 kHz 120 V AC, 60 Hz

Power consumption

225W

Dimensions (w/h/d)

Approx.  $870 \times 663 \times 575.2 \text{ mm (W/H/D)}$ 

(343/8×261/8×223/4 inches)

Weight

(KV-32XBR26)

Approx. 76.8kg (169 lb 5 oz)

(KV-32XBR36)

Approx. 77.3kg (170 lb 7 oz)

Supplied accessories

(KV-32XBR26)

Remote Commander RM-Y112A (1)

with 2 size AA (R6) **EVEREADY** batteries (KV-32XBR36)

Remote Commander RM-Y113A (1)

with 2 size AA (R6) **EVEREADY** batteries Cordless headphones

TDR-IF310 (1) with 2 size AA (R6)

**EVEREADY** batteries

Optional accessories

U/V mixer EAC-66 Connecting cable **RK-74A** 

VMC-810S/820S YC-15V/30V

Design and specifications are subject to change without notice.

### (CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION, REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### (ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

### ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.

LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

### ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE A SUR LES SCHÉMAS DE PRINCIPE, LES **VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE** IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY, LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

### **TABLE OF CONTENTS**

Sec	tion	Title	Page	Sec	ction	Title	Page
_	CENII	EDAL		6.	DIAG	BRAMS	
١.	Least	ERAL ing Controls and Connnectors ·····	5	•	6-1.	Block Diagram (1) ·····	63
	Licina	the On-Screeen Menus	7		6-2.	Block Diagram (2) ·····	65
	Sattin	g CABLE ON or OFF	9		6-3.	Block Diagram (3) ·····	67
	Dreset	tting TV Channels ······	10		6-4.	Block Diagram (4) ······	71
	Watch	ning TV Programs ······	13		6-5.	Frame Schematic Diagram	75
	Lising	Convenient Features	14		6-6.	Circuit Boards Location	78
	Using	Closed Caption ······	15		6-7.	Schematic Diagrams and Printed Wiring	Boards····· 78
	Selec	ting a Picture and Sound Mode ·····	···16			• UT Board·····	
	Watcl	hing Two Pictures at Once (PIP)	17			• U Board·····	80
	Adius	sting the TV ······	19			• A Board·····	89
	Custo	mizing the Screen Display	23			• D Board·····	93
	Using	Timer-Activated Functions	25			•El Board ·····	94
	Settin	g FAVORITE CHANNEL	29			• E2 Board ·····	103
	Using	the Pre-Programmed Remote Commander	30			•G Board·····	105
	Troub	bleshooting ·····	33			• M Board ····	
						• V Board·····	
2.	DISA	ASSEMBLY				• MAIN Board (KV-32XBR36 only) ·····	111
	2-1.	Rear Cover Removal·····	34			• LED Board (KV-32XBR36 only) ······	111
	2-2.	Chassis Assy and H Bracket Removal·····	34			•HS1 Board ·····	
	2-3.	Antenna Terninal Board Removal·····	35			• HS2 Board ·····	112
	2-4.	UT Bracket Removal ·····	35			•P1 Board·····	
	2-5.	G Bracket Removal ·····	36			•P3 Board (KV-32XBR36 only) ·······	121
	2-6.	D Board Removal ·····	36			•S Board ·····	123
	2-7.	U Bracket Removal ·····	37			• X2 Board ····	123
	2-8.	Speaker Removal ·····	37			• Y2 Board ·····	124
	2-9.	Connector Cable ·····	38			• C Board ·····	126
	2-10	Service Position·····	39		6-7.	Semiconductors ·····	131
	2-11.	Picture Tube Removal ·····	···· 40				
	2-12	. Repair of Chip Component Circuit Board	···· 41	7.	EXF	PLODED VIEWS	122
					7-1.	Chassis····	133
3.	SET	-UP ADJUSTMENTS			7-2.	Picture Tube ·····	134
	3-1.	Beam Landing	46	4			125
	3-2.	Convergence····	47	8.	ELE	CTRICAL PARTS LIST	133
	3-3.	Focus Adjustment ·····	50				
	3-4.	G2 (Screen) and White Balance Adjustments	51	А	CCES	SSORY (TDR-IF310)	
4.	SAF	ETY RELATED ADJUSTMENTS	52		1.	GENERAL	162
					2.	DISASSEMBLY	163
5.	CIR	CUIT ADJUSTMENTS			3.	ADJUSTMENTS	165
	5-1.	Electrical Adjustment by Remote Commander	55		4-1.	Printed Wiring Board ·····	167
	5-2.	A Board Adjustments	57		4-2.	Schematic Diagrams	
	5-3.	P1 Board Adjustments	61			• PD Board ·····	169
	5-4.	VC Board Adjustments·····	61			• RE Board ·····	169
						• LE Board ·····	169
					5.	EXPLODED VIEW	171
					6.	ELECTRICAL PARTS LIST	172

RM-Y112A TDR-IF310/RM-Y113A

### **SAFETY CHECK-OUT**

(US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- 1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- 7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- Check the B+ and HV to see they are at the values specified.
   Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

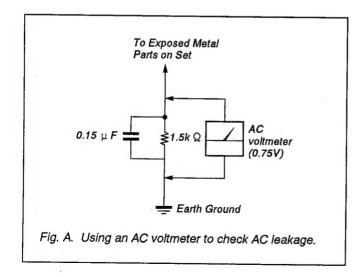
### LEAKAGE TEST

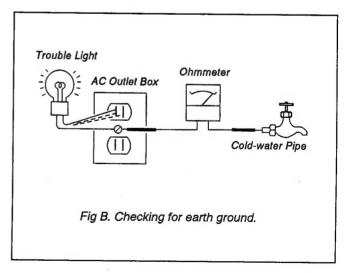
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### **HOW TO FIND A GOOD EARTH GROUND**

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)





MONITOR OUT jacks @ @

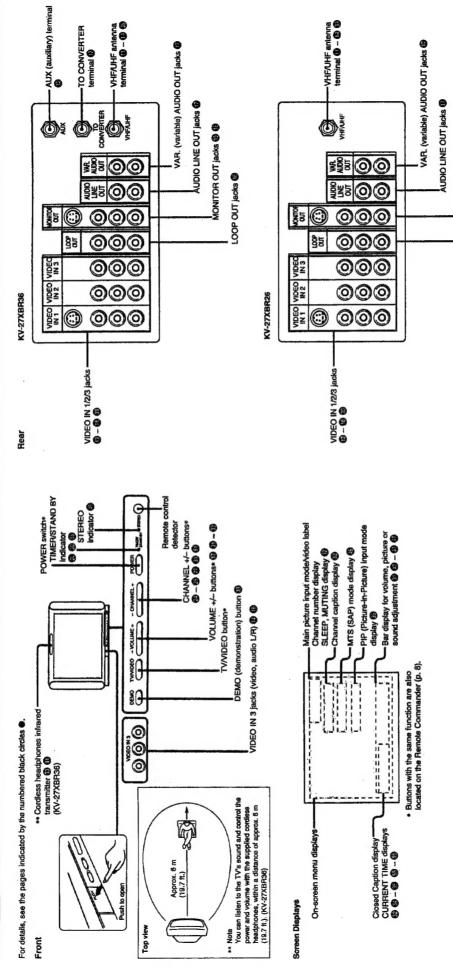
LOOP OUT jacks 🚯

### SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the

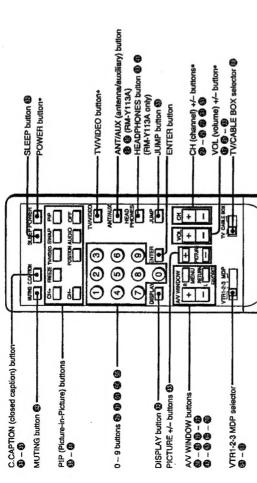
Operating Instruction Manual remein as in the manual.

# **Locating Controls and Connectors**



## **Locating Controls and Connectors**

Remote Commander (with the video control cover closed)



\* Buttons with the same function are also located on the TV (p. 6).

RM-Y113A: KV-27XBR36 RM-Y112A: KV-27XBR26 **RM-Y113A** 

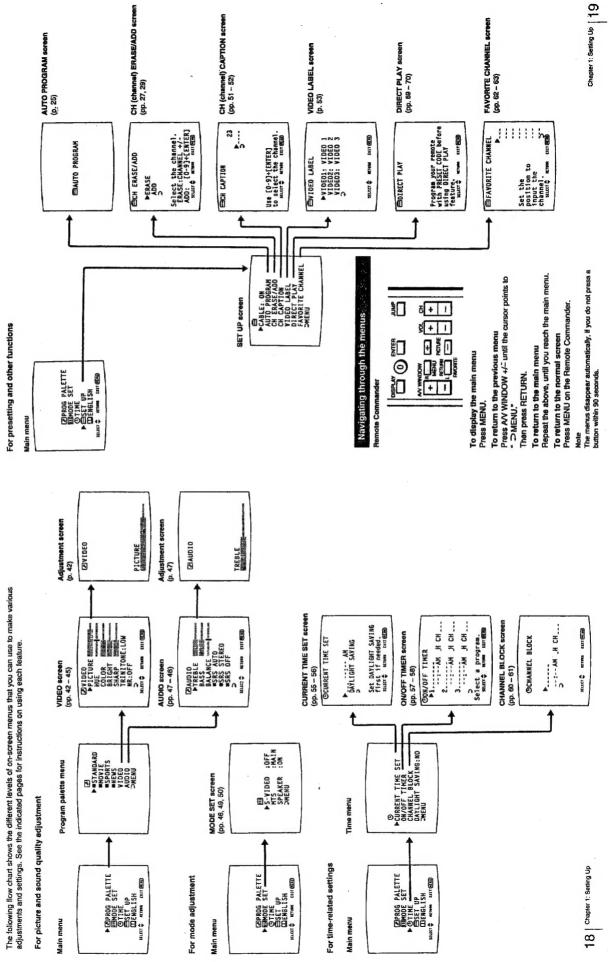
if the TV/CABLE BOX selector is set to CABLE BOX, the Remote Commander is able to control a connected cable box, not the TV (p. 69). Set the selector to TV to control the TV with the Remote Commander.

RM-Y113A

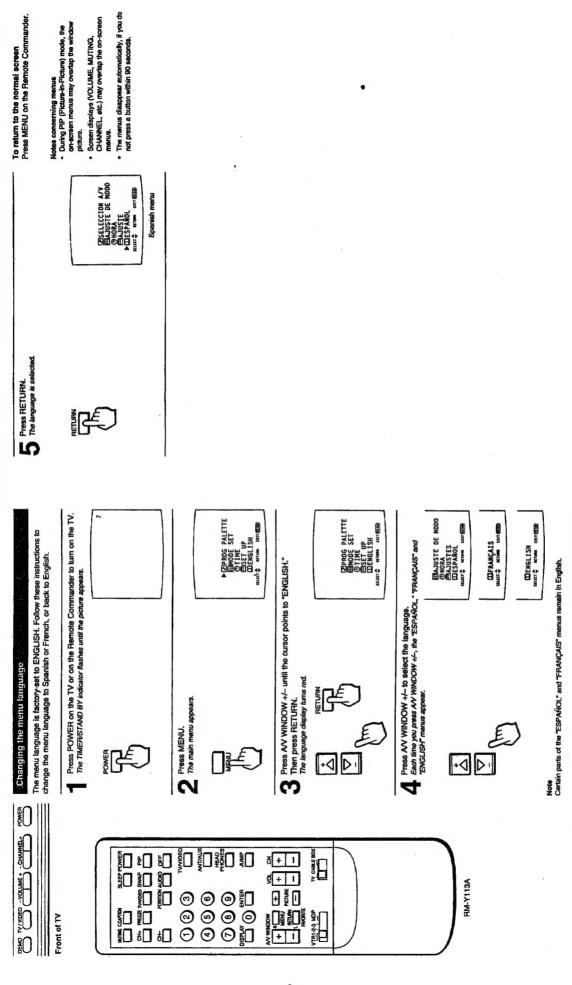
STANDARD button @ CODE SET STANDARD Remote Commander (with the video control cover open) Opening the video control cover Video operating buttons 🚳 – 🕮 Slide the cover down

8 Chapter 1: Setting Up

# Using the On-Screen Menus



### Using the On-Screen Menus

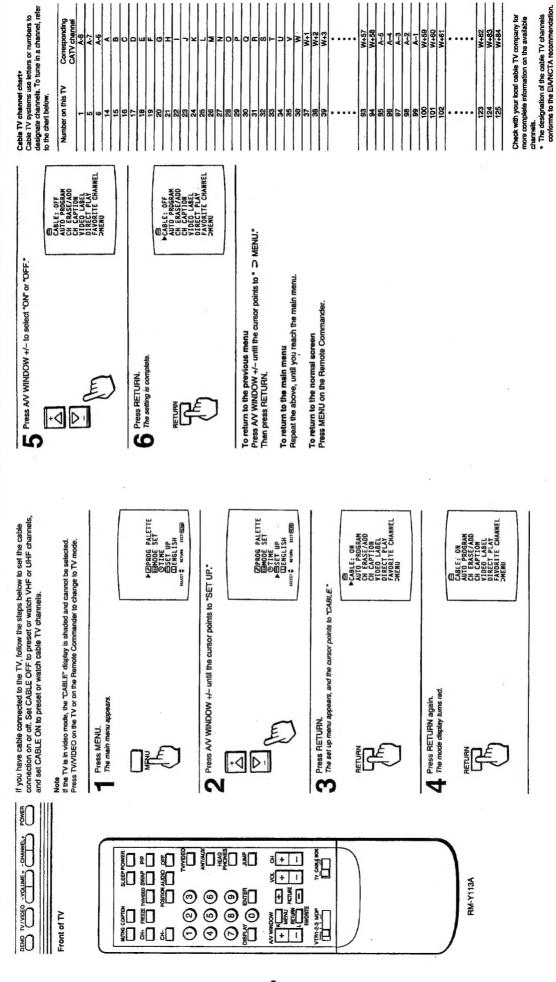


### Chapter 1: Setting Up 23

W+82 W+83 W+84

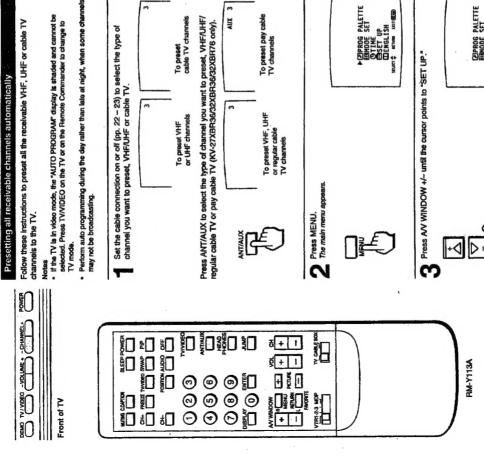
# Setting CABLE ON or OFF

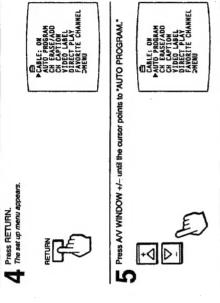
Corresponding CATV channel



# **Presetting TV Channels**

By presetting TV channels to the TV, you can select channels by pressing CHANNEL +/- on the TV or CH +/- on the Remote Commander.

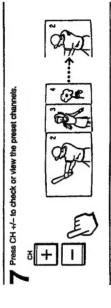




To return to the normal screen Press MENU on the Remote Commander.

To return to the main menu Repeat the above, until you reach the main menu.

\*AUTO PROGRAM" appears on the screen and receivable channels (other than the channels already preselt are preselt in numerical sequence. The channels previously preselt will not remain in the TV's memory. When no more channels are found, auto programming stops and the acrean returns. automatically to the set up menu.



PCPROG PALETTE
FINANCE SET
OTHER
FINANCE
FINAN

CPROG PALETTE
GIMODE SET
OTIME
PERSET UP
CLENGLISH
ALLT COMM ATTERN

Press RETURN.
The set up menu appears.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to " ⊃ MENU." Then press RETURN.

Press the 0 - 9 buttons and ENTER To select TV channels without

Receivable channels for this TV VHF: 2 – 13 UHF: 14 – 69 Cable: 1 – 125

(3¢ SAUTO PROGRAM 6 Press RETURN. 

AUX

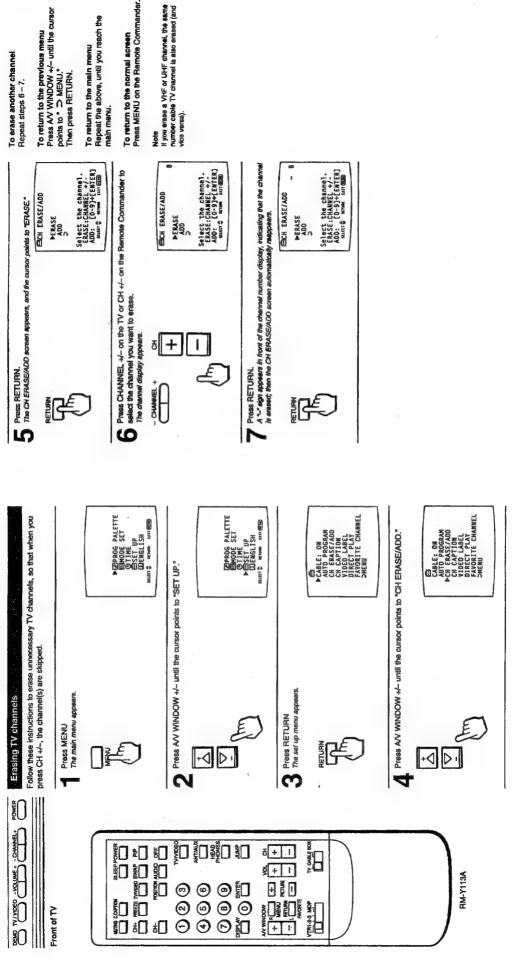
To preset cable TV channels

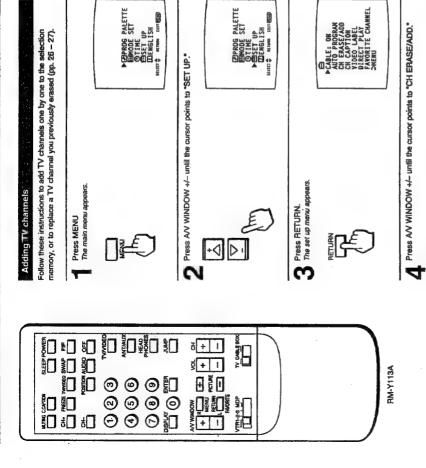
To preset VHF or UHF channels

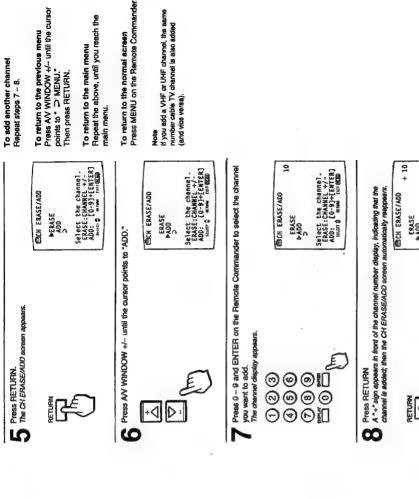
To preset pay cable TV channels

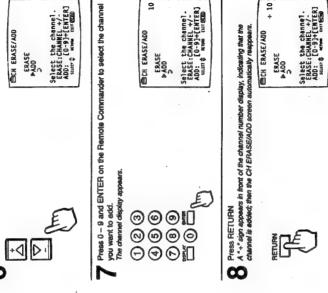
24 Chapter 1: Setting Up

### Presetting TV Channels









CABLE: DN ANTO PROGRAM POR ERASE/AND CH CAPTION VIDEO LABEL PROGRIFE CHARMEL SHEND

· d D·

# Chapter 2: Using Basic Features Watching TV Programs

Select a chan To scan the preset	<u>E</u> ) ₹ <b>+</b>	To select a channe For example, to sel	996 966		A Press VOL +	ر <u>غ</u> ا ا ا ا	H VIDEO 1, VIDEO Press TV/VIDEO or runber appears. To select channel Set FAVORITE CH
ommander is set to turn on the The		Set the cable connection on or off (pp. 22 – 23) to select the type of channel you want to watch, VHF/UHF or cable TV.	To watch VHF To watch Or UHF channels cable TV channels Press ANT/AUX to select the type of channel you want to watch. VHF/UHF/	regular cable TV or pay cable TV (KV-27XBR36/32XBR36/32XBR76 only).	To watch VHF, UHF To watch pay cable or regular cable TV channels TV channels		
to TV, in order to control the TV with the Remote Commander.  To TV, in order to control the TV with the Remote Commander.  Press POWER on the TV or an the Remote Commander.  The TIMER/STAND BY indicator flashes until the picture appear	POWER	Set the cable connection or channel you want to watch,	To wa or UH	regular cable TV or pay cable TV	To wate		
PENO TV. MOEOYOUME + -CHANNEL.					FROME TO CARE BOOK		RM-Y113A

Press + to increase the volume. Press - to decrease the volume. channels in numerical sequence, press CH +/-. el directly, press 0 – 9 and then ENTER, elect channel 10, press 1, 0 and ENTER, nnel in one of the following two ways: +/- to adjust the volume.

2 or VIDEO 3 appears on the screen on the TV or on the Remote Commander until a TV channel els more easily HANNEL (pp. 62 – 63).

To turn off the TV Press POWER on the TV or on the Remote Commander.

Functions and menus are displayed one by one.

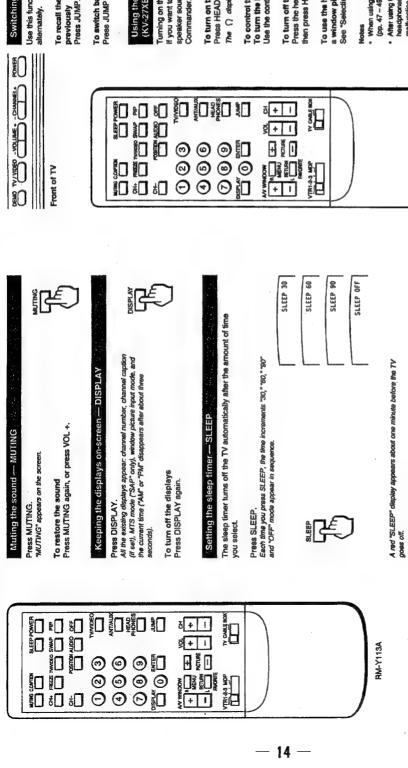
To cancel the setting.
Press SLEEP until OFF mode appears.
A green "SLEEP OFF" display appears for about three seconds.

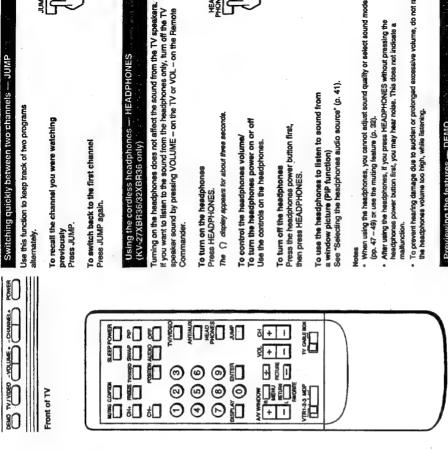
Turn the TV off.
The sleep timer setting is cancelled.

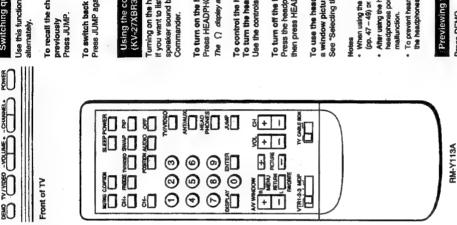
To restart DEMO from the beginning

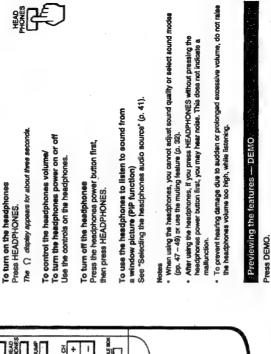
Press DEMO again. To stop DEMO Press any button.

# **Using Convenient Features**

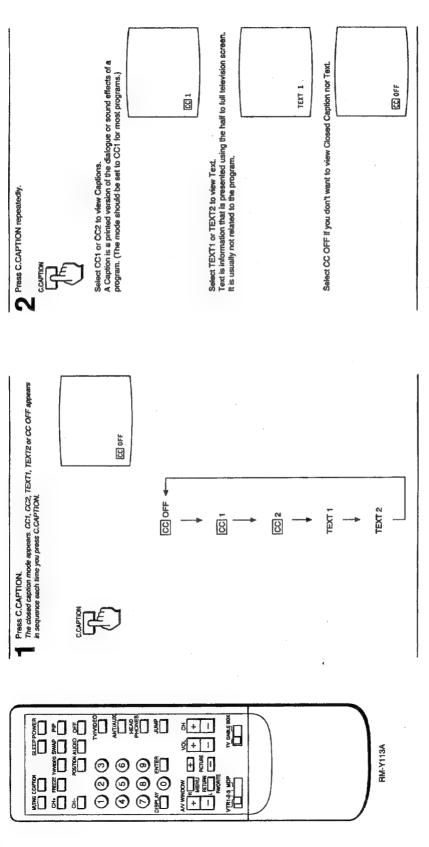








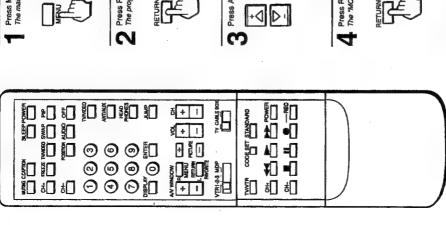
## Using Closed Caption



# Selecting a Picture and Sound Mode

This TV features four modes (STANDARD, MOVIE, SPORTS, NEWS) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

Example: Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater



PEPROG PALETTE
UMADDE SET
OTHE
EST UP
CDENGLISH
SKUET REPORTED Press MENU.
The main manu appears, and the cursor points to TPROG PALETTE."

Press RETURN.
The program palette menu appears. 

P STANDARD MOVIE BROVIE BREVS VIDEO AUDIO AUDIO

ESTANDARD
STANDARD
STANDARD
STANDARD
STANDARD
VIDEO
AUDIO
AUDIO Press AV WINDOW +/- until the cursor points to "MOVIE,"

Press RETURN.
The "MOVIE" display tums green, indicating that MOVIE mode is selected.



ESTANDARD
ENGVIE
ESPORTS
ENGVIE

To select a different mode Repeat steps 3 ~ 4.

RM-Y113 (with video control cover open)

# Selecting standard mode (without using the menus)

follow these instructions to select standard mode without using the on-screen

Press STANDARD.

STANDAR S

To return to the previous menu
Press A/V WINDOW +/- until the cursor.
points to " ... > MENU."
Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU on the Remote Commander,

### When you select STANDARD mode

You receive standard picture and sound quality. Any wideo or audio adjustiments you made ("Adjusting the TV," pp. 42 – 50) are cancelled and the original factory settings are restored.

When you select MOVIE mode You receive a fiberitical audio effect. You receive a finely detailed picture, and a theatrical audio effect. To further adjust picture and sound qualities, follow the instructions

pp. 42 - 50.

When you select SPORTS mode
You receive a vivid, bright picture, and sound with a sports stadium effect.
To further adjust picture and sound qualities, follow the instructions on pp. 42 - 50.

### When you select NEWS mode

Picture noise is reduced, and you receive clear voice reproduction. To further adjust picture and sound qualities, follow the instructions on pp. 42 – 50.

36 Chapter El Using Basic Features

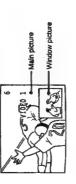
# Chapter 3: Using Advanced Features

# Watching Two Pictures at Once (PIP)

You can watch both the main picture and a window picture simultaneously, using the Picture-in-Picture (PIP) function. Models KV-27XBR36 are equipped with hybo-tuner PIP, allowing you to watch two TV channels at

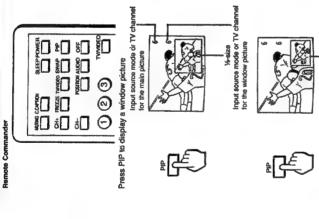
Displaying a window picture

Models KV-27XBR26 are equipped with one-tuner PIP. To watch two TV channels, you must first connect a VGR to the TV, to watch a second TV channel through the VGR tuner. (See "Connecting Other Equipment," pp. 13-14.)



Picture-in-Picture special features When watching the main picture and a window picture, AOM CAD:

- Swap the main and window pictures (SWAP).
  Change the position of the window picture (POSITION).
  Display a still picture (FREEZE).
  Choose the sound from the main or window picture (AUDIO).
- Listen to the window picture sound through the supplied cordiess headphones (HEADPHONES). (KV-27XBR36)



Each time you press PIP, a 1/9 or 1/16 size window picture appears A window picture appears in the last mode you watched.

%e-size

To turn PtP function off

The window picture disappears. Press OFF.

To receive the window picture sound Press AUDIO. The D display appears for a few seconds, indicating that the window picture sound is being received.

To restore the main picture sound
Press AUDIO again.

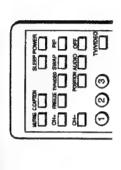
If you select a blocked channel in the window picture, the display "BLOCKED" appears with the window picture. (See "Setting CHANNEL BLOCK," pp. 60 – 61.)

The window picture sound is also output from the VAR. AUDIO OUT jacks. The AUDIO LINE OUT and MONITOR OUT jacks output the main picture sound only.

The video tabet and channel caption will not appear with the

window picture even if you have set them.

Changing the window picture input mode Remote Commander



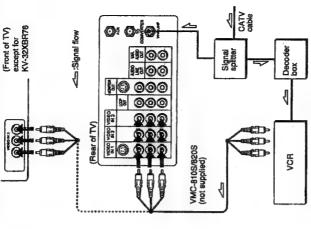
Press PIP to display a window picture.



Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence. Press TV/VIDEO in the Picture-in-Picture control area to select the input mode.

To change TV channels in the window picture Press CH +/- in the PIP control area.

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below. Displaying CATV input as a window picture



connection on by following the steps on pp. 22-23; then continue with the steps below. After making the above connections, turn the cable

7

Follow steps 1 – 2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR.

Put your VCR on an inactive channel (channel 3 or 4).

Change pay cable TV channels with the decoder box.

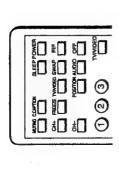
To control your cable converter box with the supplied Remote Commender See p. 68.

Chapter © Using Advanced Features 39

# Changing the position of the window picture

Follow these instructions to change the position of the window picture on the screen.

Remote Commander



Press PIP to display a window picture.



Press POSITION, Each time you press POSITION, the window picture moves as illustrated. S



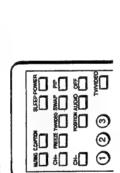




### Displaying a still picture

Use the FREEZE function to display a still picture. This function is useful when you want to write down a recipe from a cooking program, a displayed address or phone number and so on.

Remote Com



Press PIP to display a window picture.



Press FREEZE.

The window picture image remains still on the screen.



To restore the normal picture Press FREEZE again.

# Swapping the main and window pictures

Follow these instructions to swap the input signals of the main and window pictures.

Remote Commander

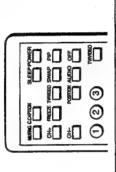
Follow these instructions to select the audio source that you want to receive through the supplied cordless headphones (main or window picture). If you want to listen to sound from the window picture, make sure that the sound from the

window picture is being received (p. 38).

Remote Commander (RM-Y113A)

Selecting the headphones audio source

(KV-27XBR36/32XBR36 only)



Press PIP to display a window picture.





Press SWAP.

Each time you press SWAP, the images from the main and window pictures switch places.





### Press PIP to display a window picture.



E

Press HEADPHONES.
Each time you press HEADPHONES, the audio source changes to main picture, wholew picture and "OFF" in sequence. The 🔘 display appears with the input mode

- If you turn PIP function off, the sound from the concless headphories changes to the main picture sound.

  If you turn of the TV, the next time you turn on the TV the headphories are off.

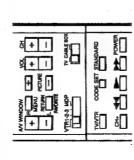
Chapter II Using Advanced Features | 41

You can adjust the picture and sound for each input mode (TV, VIDEO 1, VIDEO 2, VIDEO 3) by pressing TV/VIDEO on the TV or on the Remote Commander to select the input mode, before making the adjustments. These adjustments are relatined in memory even when you turn off the IV, but are cancelled after you change the adjustments, or select a picture and sound mode (pp. 36 – 37).

### Adjusting the picture

Follow these instructions to adjust PICTURE, HUE, COLOR, BRIGHT (brightness) and SHARP (sharpness).

Remote Commander (with video control cover open)



Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

PCPROG PALETTE
GIMODE SET
OTHER
GIST UP
GENELISH
SELECT

Press RETURN.
The program palette menu appears.

PSTANDARD
STANDARD

Press RETURN.
The VIDEO screen appears.

1			
MANUE 3		ME: CO	TUT BE
VIDEO	BRIGHT BRIGHT	RINIT R: OFF	TO SERVE
6	EOBI	v⊢=t	Street \$

Press AV WINDOW +/- until the cursor points to the item you want to adjust.

Press RETURN.
The adjustment screen appears

DVIDEO 3

Press AV WINDOW +/- to make the adjustment.

Picture quality	Press AV WINDOW -	Press AV WINDOW +
PICTURE	For decreased picture contrast with soft color	For increased picture with vivid color
HUE	Skin tones become purplish	Skin tones become greenish
COLOR	For less color intensity	For more color intensity
BRIGHT	For less brightness	For more brightness
SHARP	For less sharpness	For more sharpness

Press RETURN.
The adjustment is complete, and the VIDEO screen automatically neappears.

PATCHE EMERSIA MUE COLOR MINE COLOR MINE SIARY MINE TRAINTONE: LOW NR: OF E

To adjust other items Repeat steps 5 - 8. To restore the factory settings for all the items Select "STANDARD" on the program palette menu, and

or, press STANDARD on the Remote Commander.
All the liters, including TRINITONE (p. 44) and NR (p. 45) return to their original factory settings. press RETURN;

To adjust picture contrast You can also adjust picture contrast with the PICTURE +/~ buttons on the Remote Commander.



Press + to increase picture contrast with vivid color. Press - to decrease picture contrast with soft color. The picture adjustment screen appears.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to
# \(\triangle \) MENU."

Then press RETURN.

Repeat the above, until you reach the main menu. To return to the main menu

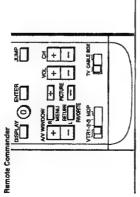
To return to the normal screen Press MENU on the Remote Commander.

Press AV WINDOW +/- until the cursor points to "VIDEO."

42 Chapter II Using Advanced Features

### Color picture tubes are usually manufactured with a fixed color temperature (tint) that determines the "warmth" (red tint) or "coolness" (blue tint) of the picture. Use the Sony Trinitone feature to adjust the picture color to your Setting the TRINITONE mode

preference.



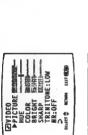
Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

PCPROG PALETTE
SEMODE SET
OTHER
SELLET
TENGLISH
SELLET
SEL

METANDARD
METANDARD
MENOVIE
MENOVIE
MENOVIE
MANDIO
OMENO
OMENO Press RETURN.
The program palette menu appears.

Press AV WINDOW +/- until the cursor points to "VIDEO."

Press RETURN.
The VIDEO screen appears.



Press AV WINDOW +/- until the cursor points to TRUNITONE."

Press RETURN.
The mode display turns red.

Press AV WINDOW +/- to select "HIGH" or "LOW." Select "HIGH" to make the picture cool (bluish). Select "LOW" to make the picture warm (reddish).

Press RETURN.
The setting is complete.  $\infty$  To return to the previous menu Press A/V WINDOW +/- until the cursor points to Then press RETURN. J MENU.

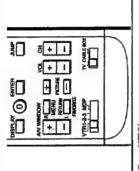
Repeat the above, until you reach the main menu. To return to the main menu

To return to the normal screen Press MENU on the Remote Commander.

Setting NR (picture noise reduction) ON or OFF Follow these instructions to reduce picture noise.

Fress AV WINDOW +/~ until the cursor points to "NR."

Remote Comma



PICTURE HEREFLE HEREFL

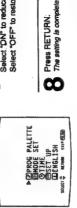
Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

Press AV WINDOW +/- to select "ON" or "OFF."

Press RETURN.

The mode display tums red.

Select "ON" to reduce picture noise. Select "OFF" to restore the normal picture



Press RETURN.
The program palette menu appears.



To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU on the Remote Commander.

To return to the previous menu Press AV WINDOW +/- until the cursor points to

Then press RETURN.

Press AV WINDOW -/- until the cursor points to "VIDEO."

PALCINE MANAGEMENT OF THE COLOR STREET OF THE Press RETURN.
The VIDEO screen appear

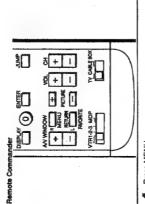
44 Chapter 3: Using Advanced Features

## Setting S-VIDEO ON or OFF

Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the TV. For instructions on connecting video equipment, see pp. 13 – 16.

if the TV is in TV, VIDEO 2 or VIDEO 3 mode, the "S-VIDEO" (deplay is standed and cannot be selected.

Press TVIVIDEO on the TV or on the Remote Commander to change to VIDEO 1 mode.



Press MENU. The main menu appears.

MEMORE SET OF THE CONTROL SET OF THE CONTROL SET OF THE CONTROL IN CONTROL SET OF THE CONTROL OF

Press A/V WINDOW +/- until the cursor points to "MODE SET." S Press RETURN. The mode set menu appears, with the cursor pointing to "S-VIDEO." 3

PS-VIDED :OFF HTS :MAIN SPEAKER :ON

Press RETURN.
The mode display turns red.

Press A/V WINDOW +/- to select "ON" or "OFF."

Press RETURN.

The setting is complete

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to
" \( \to \) MENU."

Then press RETURN.

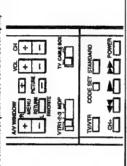
To return to the math menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU on the Remote Commander.

### Adjusting the sound

Follow these instructions to adjust the TREBLE, BASS and BALANCE

ander (with video control cover open) Remote Comn



The main menu appears, and the cursor points to "PROG PALETTE." Press MENU.



Press RETURN.
The program palette menu appears.



Press A/V WINDOW +/-- until the cursor points to "AUDIO."

Press RETURN.
The AUDIO screen appears.



Press A/V WINDOW +/- until the cursor points to the item you want to adjust.

Press RETURN.
The adjustment screen appears.

BASS MATHEMATINE ©AU010

Press A/V WINDOW +/- to make the adjustment.

To emphasize the right speaker's volume Press A/V WINDOW + To increase the treble response To increase the bass Press AV WINDOW -To decrease the trable To emphasize the left speaker's volume To decrease the bass response BALANCE TREBLE BASS

Press RETURN.

The adjustment is complete, and the AUDIO screen automatically reappears.

TREEL MANAGEMENT PARTY BALANCE MANAGEMENT PART

To adjust other items

Repeat steps 5 - 9.

To restore the factory settings for all the Items Select "STANDARD" on the program palette menu, and press RETURN; or, press STANDARD on the Remote

Commander, All the items, including SRS mode (p. 48) return to their original factory settings.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to
" 

MENU."

Repeat the above, until you reach the main menu. To return to the main menu Then press RETURN.

To return to the normal screen Press MENU on the Remote Commander.

Chapter 3: Using Advanced Features |47>

# Selecting an SRS (Sound Retrieval System) mode

For lifelike sound reproduction, follow the instructions below to select the SRS mode you prefer.

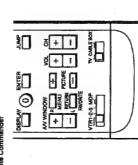
In SRS AUTO mode, SRS functions in both monaural and stereo modes.

Monaural sound programs will have a 'simulated stereo'

in SRS STEREO mode, SRS functions only when a stereo program is received. The STEREO indicator on the TV lights up whenever a stereo broadcast is received.

Select SRS OFF mode to return to normal sound mode.

### Remote Commander



Press MENU, The main menu appears, and the cursor points to "PROG PALETTE."



Press AV WINDOW +/- until the cursor points to "AUDIO."

Press RETURN.
The AUDIO screen appears.



Press AV WINDOW 4/- until the cursor points to the SRS mode you want.

Press RETURN.
The mode is selected.

To change the SRS mode Repeat steps 5 - 6. To return to the previous menu
Press A/V WINDOW +/- until the cursor points to
D MENU."

Then press RETURN.

To return to the normal acreen Press MENU on the Remote Commander.

Selecting an MTS (Multichannel TV Sound) mode

Press AV WINDOW +/- until the cursor points to "MTS."

The STEREO indicator on the TV lights up whenever a stereo broadcast is received. Follow these instructions to select an MTS mode. Select MAIN mode to listen to stereo sound.

Select MONO mode to eliminate excessive noise during Select SAP mode to listen to Second Audio Programs. stereo broadcasts, caused by a weak incoming signal.

Press RETURN.
The mode display turns red.

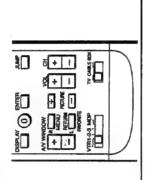
if the TV is in video mode, the "MTS" display is shaded and cannot be selected.

Press TV/VIDEO on the TV or on the Remote Commander to change to TV mode.

Press A/V WINDOW +/- to select the mode you want. Each time you press A/V WINDOW +/-, "WAIN," "SAP" and "MONO" appear in sequence.

6

Remote Commander



To return to the previous menu Press A/V WINDOW +/- until the cursor points to " > MENU."

Press RETURN.
The mode is selected.

Repeat the above, until you reach the main menu.

To return to the main menu

Then press RETURN.

To return to the normal screen Press MENU on the Remote Commander.

Press MENU. The main menu appears.



Press AV WINDOW +/- until the cursor points to "MODE SET."

Precs RETURN.
The mode set menu appears.

:OFF :MAIN :ON FS-VIDEO KTS SPEAKER SPEAKER

Press RETURN.
The program palette menu appears.

P STANDARD MOVIE MOVIE MOVIE MOVIE WILL OF AUDIO AUDIO



Now E VIRI-23 MOP

Press RETURN.
The setting is complete.

PZPROG PALETTE
GENODE SET
OFTHE
GENTLISH
GENTLISH
SILLE & KENDE Press MENU. The main menu appears.

7

Repeat the above, until you reach the main menu.

To return to the main menu

Then press RETURN. J. MENU.

To return to the normal screen Press MENU on the Remote Commander.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to

Press AV WINDOW +/~ until the cursor points to "MODE SET."

PS-VIDEO : OFF NTS : MAIN SPEAKER : ON Press RETURN.
The mode set menu appears.

Press AV WINDOW +/~ until the cursor points to "SPEAKER."

Follow these instructions to caption each channel number display with a name, for instance, the television station call letters. (You can set up to four letters or numbers).

ð + 1 NOOME THE PARTY OF @ @ @ inder (RM-Y113A) Remote Comr

ECH CAPTION

Use [0-9]+[ENTER] to select the channel.

Press RETURN.
The first caption space turns red.

Press MENU. The main menu appears.

MODE SETTE OTHER SETTE OF THE SETTE OF THE SETTE OF THE SETTE OF S

Press A/V WINDOW +/- until the cursor points to "SET UP." S

Press RETURN.
The set up menu appears.

PECABLE: ON PECABLE: ON PECABLE: ON PECABLE: ON PERFORM VIDED LABEL PLAY FAVORITE CHANNEL SHENU

(Continued)

Press AV WINDOW +/- until the cursor points to "CH CAPTION."

# **Customizing the Screen Display**

Setting channel captions — CH CAPTION

Example: Caption channel 15 as "NBC."

] \_\_\_\_\_\_

ECH CAPTION

Press RETURN.
The CH CAPTION screen appears.

Use [0-9]+[ENTER] to select the channel.

Press CH +/-, or press 1, 5 and ENTER to set.

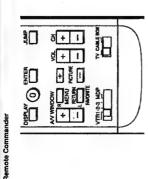
Press AV WINDOW +/- to select "N."

Each time you press AV WINDOW +/-,"0" - '9," -4" - '2,"
"8," '," -" and "." (blank space) appear in sequence. ESCH CAPTION

Select the 1st letter. THIT SEED MCTUBER . Seuter 😩

Press RETURN,
The second caption space tums red.

Chapter It Using Advanced Features | 51



Press A/V WINDOW +/- to select "B."



Press RETURN.
The third caption space turns red.

Press AV WINDOW 4/- to select °C."

ECH CAPTION
15
80.
Select the 3nd letter.
senant to man trigge

Press RETURN.
The fourth caption space turns red.

Press AV WINDOW +/- to select a blank space.



Fress RETURN.
The setting is complete.
When you select or display the channel number, the channel reption also appears.

To caption more channels Repeat steps 6 – 15. To erase unnecessary captions
Display the CH CAPTION screen, select the channel with
the caption you want to erase, and select blank spaces for
the clainnel caption; then press RETURN.
The caption for that channel is erased.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to
- > MENU."
Then press RETURN.

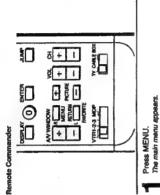
To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU on the Remote Commander. Note to cue set up to 22 channel captions. If the memory is full, "The memory is full, sorry appears on the screen. Erase any unnecessary ceptions, and begin again.

Setting VIDEO LABEL

Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

Example: Label VIDEO IN 1 as "VHS."



PEPROG PALETTE
OTTHE
OTHE
DEBALLISH
MART STATE
MART STA

Press AV WINDOW +/- until the cursor points to "SET UP."

PABLE: OFF
AUTO PROGRAM
CH ERASE/ADD
CH CAPTION
VIDEO (AREL
VIDEO

Press AV WINDOW +/- until the cursor points to "VIDEO LABEL."

Press RETURN.
The VIDEO LABEL screen appears.

EVIDEO LABEL

VIDEO1: VIDEO 1
VIDEO2 VIDEO 2
VIDEO3: VIDEO 3
VIDEO3: VIDEO 3
VIDEO3: VIDEO 3
VIDEO3: VIDEO 3
VIDEO 4
VIDEO 4
VIDEO 4
VIDEO 4
VIDEO 4
VIDEO 5

Press AV WINDOW +/- until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

Press A/V WINDOW +/- to select "VHS."

Press RETURN.
The label display turns red.

VIDEOI: VHS VIDEO2: VIDEO 2 VIDEO3: VIDEO 3 Sech time you press AV WINDOW +/-, the label changes:
VIDEO 1 — BETA — 8 mm — VMS.— LD — \$ S-VIDEO —

VIDEO 3 VIDEO 3→ BETA → BITIM → VHS → LD → PETA → BITIM → VHS → LD → PETA → BITIM → VHS → LD → LD → PETA → BITIM → VHS → LD → PETA → PETA → BITIM → VHS → LD → PETA → PETA → BITIM → VHS → LD → PETA → PETA → PETA → BITIM → VHS → LD → PETA → PETA → BITIM → VHS → LD → PETA → P

Press RETURN.
The set up menu appears.

VIDEO 2 → BETA → 8mm → VHS → LD

VIDEO 2

Press RETURN.
The setting is complete.
Then you select or display the video mode, the video label expens.

To label other input modes Reneal steps 6 - 9.

Repeat steps 6 - 9.

To change a label
Same as above,

Call a service.

Press AV WINDOW +/- until the cureor points to

" D MENU."

Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU on the Remote Commander.

Chapter 3: Using Advanced Features 53

# **Using Timer-Activated Functions**

### Setting DAYLIGHT SAVING

itme-related settings (CURRENT TIME, ON/OFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT SAVING setting. season, before setting the current time. At the next daylight savings date, you will be able to automatically adjust all the If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the

### When setting DAYLIGHT SAVING:

After the first Sunday in April (spring daylight eavings) Set to "YES" before setting the current time. Then, on the last Sunday in October (fall daylight savings), set to "NO."

Press A/V WINDOW +/- until the cursor points to "DAYLIGHT SAVING."

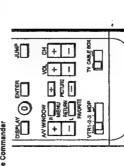
After the last Sunday in Ootober (fall daylight savings) Set to "NO" before setting the current time. All the time-related settings automatically move one hour back. Then, on the first Sunday in April (spring daylight savings), set to "YES."

All the time-related settings automatically move one hour ahead.

Press RETURN.
The mode display turns red.

5

Remote Commander



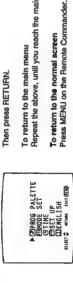
Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."

Press MENU.
The main menu appears.

Press AV WINDOW +/- until the cursor points to

To return to the previous menu

Press RETURN.
The setting is complete.



Repeat the above, until you reach the main menu.

To return to the main menu

Then press RETURN. U MENU

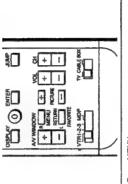
> Press AV WINDOW +/- until the cursor points to \*TIME.\* S

Press RETURN.
The time menu appears.

Follow these instructions to set the current time. The correct current time must be set in order to use the other time-related functions (DAYLIGHT SAVING, ONVOFF TIMER, CHANNEL BLOCK). G EURRENT TIME SET ON/OFF TIMER CHANNEL BLOCK DAYLIGHT SAVING:NO PMENU

Example: Set the time to 3:15 PM, Monday

Remote Commander



Press MENU.
The main menu appears. Ŧ

Press AV WINDOW +/- to select "YES" or "NO."

9



Press AV WINDOW +/- until the cursor points to "TIME." S Press RETURN.
The time menu appears, and the cursor points to "CURRENT TIME SET." 3

CURRENT TIME SET ON/OFF TIME CHANNEL BLOCK C

Press RETURN again. The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING.

Setting the clock — CURRENT TIME SET

Set DAYLIGHT SAVING first if needed. stact annum confission OCURRENT TIME SET DAYLIGHT SAVING

If you do not need to set DAYLIGHT SAVING, press RETURN and continue from step 5.

### To set daylight saving

- Press A/V WINDOW +/- until the cursor points to "DAYLIGHT SAVING." Press RETURN. æ
  - The time menu appears, and the cursor points to DAYLIGHT SAVING." ٩
- Press RETURN. O
- Press A/V WINDOW +/- to select "YES" or "NO."
- The setting is complete. Press RETURN. Ф

To set the time, press AV WINDOW +/- until the cursor points to "CURRENT TIME SET"; press RETURN, then continue from step 5.

Press RETURN.
The CURRENT TIME SET screen appears, and the "SUN" display appears (red).

Press A/V WINDOW +/- to select "MON." Each time you press A/V WINDOW +/-, the day changes consecutively. 6

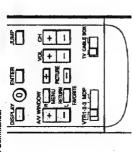
Select today's day. OCURRENT TIME SET MDN 12:00 AN START

(Continued)

Chapter 3: Using Advanced Features | 55

## Setting the clock — CURRENT TIME SET

Remote Commander



Press RETURN.
The hour and ampin displays turn red.

Press AV WINDOW +/- to set "3:00PM."
Each time you press AV WINDOW +/-, the hour changes in sequence beginning with "12:00AM."



Check the actual time, and press RETURN to start
the clock. Press RETURN.
The cursor points to "START." The setting is complete

Display the CURRENT TIME SET screen and repeat steps 5 – 12. To reset the time

To display the current time Press DISPLAY.

To return to the previous menus Press A/V WINDOW +/- until the cursor points to \* ⊃ MENU.\*

Then press RETURN.

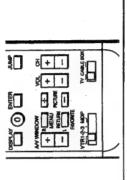
Repeat the above, until you reach the main menu. To return to the main menu

To return to the normal screen Press MENU on the Remote Commander.

### Setting the ON/OFF TIMER

Follow these instructions to make the program of your choice appear on the screen at a specified time. Set the timer to turn on the TV every Monday through Friday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up to three programs.) Example:

Remote Commander



Press MENU.
The main menu appears



Press AV WINDOW +/- until the cursor points to "TIME."

Press RETURN.
The time menu appr

Press AVV WINDOW +/- to select \*15" (minutes).

Each time you press AVV WINDOW +/-, the minutes obsarge in sequence.

Press RETURN.
The minute display turns red.

OCURRENT TIME SET

MON 3:15 PH START



Press AV WINDOW +/- until the cursor points to "ON/OFF TIMER." 4

Press RETURN.
The ON/OFF TIMER screen appears, and the cursor points to 1:.

3.....AM H CH... DON/OFF TIMER Select a program.

To set program 1, press RETURN.
(To set program 2 or 3, press A/V WINDOW +/- until
the cursor points to that program; then press RETURN.) The day input space lums red. Press AV WINDOW +/- to select "EVERY MON-FRI"; then press RETURN, Each time you press AV WINDOW +/-, the days of the week charge as shown in Fig. 1 (p. 59).

Press AV WINDOW +/~ to select "1:00AM"; then press RETURN.
Each time you press AV WINDOW +/~, the hour changes in sequence.  $\infty$ 

CONTOFF THER

1.EVERY HON-FRI.

2.100AM .H CH...

3....AM .H CH... Set the time.

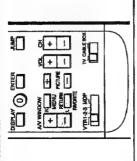
Chapter 3: Using Advanced Features | 57

Set the time.

## Using Timer-Activated Functions

# Setting the ON-OFF TIMER (Contd from prev page)

Remote Commander



Press A/V WINDOW +/~ to select "30" (minutes); then press RETURN. Each time you press A/V WINDOW +/-, the minutes change 9

2 .....AH .H CH... GON/OFF TIMER.

1.EVERY MON-FRI
1:30AM \_H CH... Set the duration.

Press AV WINDOW +/- to select "3" (hour duration); then press RETURN.
Each time you press AV WINDOW +/-, the duration changes from "1" = "6" in sequence.

GON/OFF TIMER

1. EVERY MON-FRI

2. 1:30AM 3M CH... 3.....AM .H CH... Set the channel.

then press RETURN.
The TMERSTAND BY indicator fights, indicating that the setting is complete.
Each time you press AVY WINDOW 4/-, the channel number changes from 1 – 125 in sequence. Press AV WINDOW +/- to select "8" (channel);

GON/OFF TIMER

1. EVERY NON-FRI

P. 2. 1.30AM BR CH 8

3. ...-AM .H CH... Select a program.

The display "TV WILL TURN OFF" appears on the screen one minute before the timer duration ends.

To set program 2 or 3. Press RETURN and repeat steps 6 – 11.

To erase an ONOFF TIMER setting
Display the ONOFF TIMER screen, select the setting you
want to erase, and select a blank space for the day.
The ONOFF TIMER setting is erased.

To enter a new ON/OFF TIMER setting Display the ON/OFF TIMER screen and repeat steps 6 – 11.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to

□ ⊃ MENU.\*

Then press RETURN.

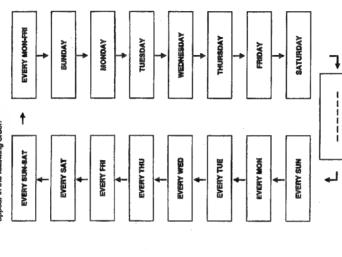
To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen

Press MENU on the Remote Commander.

Note If you unplug the TV or a power failure occurs, both the clock and finer settings will be erased. Reset the current time; then set the finer.

Selecting the day(s) of the week
When you press A/V WINDOW +, the days of the week
appear in the following order:



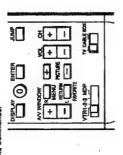
## Using Timer-Activated Functions

### Setting CHANNEL BLOCK

Follow these instructions to prevent a channel from appearing on the screen during the time that you specify. You can use this function to prevent children from watching unsuitable programs.

Example: Set CHANNEL BLOCK every Saturday at 4:30 PM for 1 hour, on Channel 12.

Remote Commander



If you have not set the current time, the "CHANNEL BLOCK" display is shaded and cannot be selected.

Press MENU.
The main menu appears.



Press A/V WINDOW +/- until the cursor points to "TIME."

Press RETURN.
The time menu appears.

CURRENT TIME SET ON/OFF TIME CHANNEL BLOCK CHANNEL BLOCK DAYLIGHT SAVING:NO

Press AV WINDOW +/- until the cursor points to "CHANNEL BLOCK."

Press RETURN.
The CHANNEL BLOCK screen appears, and the cursor points to the day input space. 5

tin (B) OCHAMBEL BLOCK 1004.20 States 🕏

Press RETURN.
The day input space turns red.

Press AVV WINDOW +/- to select "EVERY SAT"; then press AVV WINDOW +/-, the days of the week change as shown in Fig. 1 (p. 69).

EVERY SAT 12:00AH "H CH... Set the time. **GCHANNEL BLOCK** 

Press AV WINDOW +/- to select "4:00PM"; then press RETURN. Each time you press AV WINDOW +/-, the hour changes in sequence.  $\infty$ 

4:00PH H CH. Set the time. **OCHARNEL BLOCK** 

Press AV WINDOW +/- to select ".30" (minutes); then press RETURN. Each time you press AV WINDOW +/-, the minutes change 0

Set the duration. EVERY SAT 4:30PM "H CH... OCHANNEL BLOCK

Press A/V WINDOW +/- to select \*\*\* (hour duration); then press RETURN.

Each time you press A/V WINDOW +/-, the duration charges from \*\*! - f\*\* in sequence.

EVERY SAT 4:30PM 1H GH Set the channel. **GCHANNEL BLOCK** 

Press A/V WINDOW +/- to select "12" (channel); then press RETURN.
The setting is complete.
Each time you press AV WINDOW ++, the channel number changes from "1" - "155" is sequence.

PEVERY SAT 4:30PH IN CH 12 SELECT CONTRACT CONTRACT **OCHARNEL BLOCK** 

At the specified time, "BLOCKED" appears in red on the screen, and the picture of the specified channel is blocked and the sound is muted.

BLOCKED

To erase a CHANNEL BLOCK setting Display the CHANNEL BLOCK screen, select the setting you want to erase, and select a blank space for the day. The CHANNEL BLOCK setting is eased.

To enter a new CHANNEL BLOCK setting Display the CHANNEL BLOCK screen and repeat steps 4 – 10. (You can only set one CHANNEL BLOCK at a time.)

To return to the previous menu Press AV WINDOW +/- until the cursor points to

Repeat the above, until you reach the main menu. To return to the normal acreen Press MENU on the Remote Commander

To return to the main menu Then press RETURN.

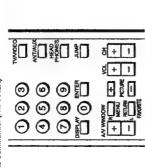
if the ONOFF TIMER is set for an overlapping time (pp. 57 – 59), the laten time setting takes precedence. For example, if CHANNEL BLOCK is set for 2:00 PM and ONOFF TIMER is set for 3:00 PM, ONOFF TIMER will take effect at 3:00 PM.

60 Chapter It Using Advanced Features

# Setting FAVORITE CHANNEL

By setting FAVORITE CHANNEL, you can select the channels you use most frequently (up to seven channels) simply by pressing RETURN on the Remote Commander.

Remote Commander (RM-Y113A)



Follow these instructions to set the channels.

Press MENU. The main menu appears.



Press AV WINDOW +/- until the cursor points to "SET UP." S

CALE: ON AUTO PROGRAM CHERASE/ADD VIOCO LABEL DIRECT PLAY FAVORITE CHANNEL SHEUL Press RETURN.
The set up menu appears.

Press AV WINDOW +/- until the cursor points to "FAVORITE CHANNEL." 4

Press RETURN.
The FAVORITE CHANNEL screen appears, and the cursor points to the first channel position. 5

EFAVORITE CHANNEL Set the position to input the channel.

Press AV WINDOW +/- to select the channel position; then press RETURN.

Press 0 - 9 and ENTER to set the channel number.



Press RETURN.
The setting is complete

To set other channels Repeat steps 6 -- 8.

After setting the channels, follow these instructions to select

the channel you want to watch.

Selecting a favorite channel

Press RETURN. The FAVORITE CHANNEL display appears.

To erase a favorite channel setting Press AV WINDOW 4.4- until the cursor points to the relating humber you want to erase; press RETURN, then press 0 and ENTER.

To reset a favorite channel setting Display the FAVORITE CHANNEL screen and repeat sleps 6 – 8.

To return to the previous menu
Press AVV WINDOW +/- until the cursor points to
DMENU.\* Then press RETURN.

Repeat the above, until you reach the main menu. To return to the main menu

To return to the normal screen Press MENU on the Remote Commander

Note if you have set channel captions (pp. \$1-52), the captions appear if you have set channel numbers.

BBESPN 2CNN 56HBO

35DSNY 23HTV

Press AV WINDOW +/- to select the channel you want to watch; then press RETURN.

The channel is selected.

If you press RETURN on the Remote Commander before setting FAVORITE CHANNEL, this screen appears.

Please go to SET UP in the menu. Set your favorite channels first.

Follow steps 1 - 8 to set your favorite channels, and then make the selection.

# Using the Pre-Programmed Remote Commander

You can operate other video equipment (such as VCRs, video disc players and cable boxes) that have an infrared remote detector with this supplied Remote Commander.

## Operating Sony video equipment

Follow these instructions to operate Sony video cassette recorders (Beta, 8 mm and VHS) and video disc players (including multi-disc players).

Remote Commander (RM-Y113A) (with video control cover open)

· · · · · · · · · · · · · · · · · · ·	
100 COL	ONE SET STANGAND

Set the VTR1-2-3 MDP selector according to the video equipment you want to operate.



### Fig. 2: Video equipment settings

If you want to operate a:	set to:
Beta, ED Beta VCR	VTR 1
8 mm VCR	VTR2
VHS VCR	VTR3
Video disc plaver	QUM

		Ela 4- O
Use the video operating buttons to control the	a buttons to control the	A
connected equipment.		To fum or
		To play
		To stop
Fig. 3: Operating a VCH (VIH1, 2, 3)	IR1, 2, 3)	Tonaire
To turn on or off	Press POWER.	
To change channels	Press CH +/ *	
(when watching TV		-
programs through the		
VCR's turner)		
To record	Press  and REC	
	simultaneously.	
To play	Press ▶.	nicture fo
To stop	Press ■.	and back
To fast forward	Press ▶▶.	
To rewind the tape	Press ★★.	a diole
To pause	Press II.	• If the video
	To resume normal playback,	odseuco
	press again.	operate.
To search the picture	Keep pressing ►► or ♣€	• If you set
forward and backward	during playback.	selector
	To resume normal playback,	to operate
	release the button.	
To change input mode	Press TV/VTR.	Caution
		When were

- so equipment does not have a certain function, the ording button on this Remote Commander will not
- another manufacturer's code to a VTR1-2-3 MDP position (pp. 66 67), you must also set the Sony code to Sony equipment.

Caution
When you replace the batteries, do it within approximately
30 minutes. Otherwise the settings you made under the
Pre-Programmed function (pp. 66 – 69) may be erased.

# Using the Pre-Programmed Remote Commander

# Operating non-Sony or Sony video equipment

Follow these instructions to set the manufacturer's code, which will enable you to operate non-Sony and Sony video equipment with the pre-programmed Remote Commander.

Example: Operate an RCA video cassette recorder connected to the VIDEO IN 2 jacks.

Remote Commander (RM-Y113A) (with video control cover open)

video control cover open)	#	(1) (2) (3) TAYRORD (4) (4) (5) (6) (6) (7) (4) (7) (4) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	$\Theta \Theta$	ACT WINDOW TO CH.	VTH1-2-3 MDP TV CARE BOX	TVATTR CODESET STANDARD	- Power
video co							

Set the VTR1-2-3 MDP selector to VTR2.



Note
To use another manufacturer's equipment besides a Sony VCR, set
the selector to a position not being used for your Sony video
equipment.

While pressing CODE SET, press 0, 7 and ENTER to set RCA's code number. (For manufacturer code numbers, see Figs. 5, 6 and 7 on p. 67.)

Use the video operating buttons to operate the connected equipment. (see Fig. 3 on p. 64 and Fig. 4 on p. 65.)

umbers	CODE
rer code n	
nanufactur	IRER
E VCR m	MANUFACTU
Fig	3

MANUFACTURER	CODE
SONY	01, 02, 03
CANON	92
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	23
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08, 36
JVC	16, 35
MAGNAVOX	60, 06, 08
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	02, 06
PHILCO	05, 06
PHILIPS	60, 06, 09
QUASAR	05, 06
RCA	90 '20
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	60 '90 '90
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	52
ZENITH	41

Fig. 6: MDP manufacturer code numbers

MANUFACTURER	CODE
SONY	8
KENWOOD	88
MAGNAVOX	25
MARANZ	54
MITSUBISHI	51
PANASONIC	55
SdITIHd	52
PIONEER	51
RCA	51
SANYO	22
SHARP	56
YAMAHA	53

Numbers	
Code	
t and	
Equipmen	
Sony	
Fig. 7	

CODE	10	02	93	8
SONY EQUIPMENT	Beta, ED Beta VCR	8 mm VCR	VHS VCR	Video disc plaver

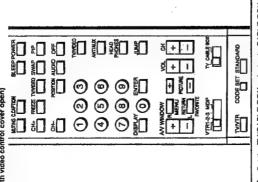
In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Famote Commander. In this Famote Commander, in this case, please use the equipment's own remote control unit.

# Operating a cable converter box

Follow these instructions to set the manufacturer's code, which will enable you to operate a connected cable converter box with the pre-programmed Remote Commander, Example: Operate a connected Zenith cable converter box.

98. Fig. C. F.

Remote Commander (RM-Y113A) (with video control cover open)



To return to the normal screen Set the TV/CABLE BOX selector to TV; then use the TV control buttons to control the TV.

For more details on operating the cable box Refer to the operating instructions that come with the cable box.

Fig. 8: Cable box manufacturer code numbers

Set the TV/CABLE BOX selector to CABLE BOX.



- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
  - If you enter a new code number, the code number you previously entered at that setting is erased.
- in some rare cases, your equipment may use a code that is not provided with this Rennote Octumation and your may not be able to operate your cable converter box with the supplied Rennie Commander. In this case, use the equipment's own remote

# While pressing CODE SET, press 6 and 8 (Zenith's code number — see Fig. 8) and ENTER.

Follow these instructions to switch from TV to VCR mode by simply pressing the ▶ (playback) button on the supplied Remote Commander

you press ▶, the input mode changes to the VCR connected to the VIDEO IN 1 jacks.

Remote Con

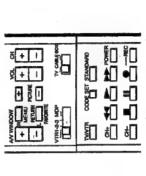
Use the TV control buttons (POWER, 0 – 9, ENTER and CH +/-) to operate the cable converter box.

품 +

@@@[£ @@@@ ⊝@©[]

1

retained in the TV's memory.



Press MENU.
The main menu appears.



60, 61, 62, 63, 64, 65

CODE

MANUFACTURER

JERROLD PIONEER TOCOM ZENITH

69, 70 66, 67 71, 72

SCIENTIFIC ATLANTA

89

Press AV WiNDOW +/- until the cursor points to "SET UP." S

Press RETURN.

The mode display turns red.

PCABLE: ON AUTO PROGRAN CAN ERASE/AND CAN CAPTION VIDEO LABEL PAYORITE CHANNEL SAFEN

# Selecting a VCR mode directly — DIRECT PLAY

Press AV WINDOW +/- until the cursor points to "DIRECT PLAY."

Example: Connect your VCR to the VIDEO IN 1 jacks, and set the VTR1-2-3 MDP selector to VTR2. When iting the steps below, the VTR selector position is

under (with video control cover open)

Program your remote with PREST COE before using DIRECT PLAY feature.

This screen reminds you to set the manufacturer's code, if you have not already done so (pp. 66 – 67).

Press RETURN again.

The DIBECT PLAY screen

EDIRECT PLAY

Fress RETURN.

A message screen appears.

Press AV WINDOW +/- until the cursor points to the video input mode. (When the video equipment is connected to VIDEO in 1, select "VIDEO1.")

VTR1 2 3 MDP

VIDEOZ: OFF

MDIRECT PLAY

Press RETURN.
The set up menu appear

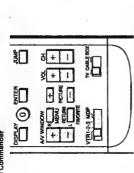
3

Chapter 3: Using Advanced Features | 69

# Using the Pre-Programmed Remote Commander

Selecting a VCR mode directly - DIRECT PLAY (Contal from prev page)

Remote Commander



Press AVV WINDOW +/- to select the VTR selector mode you have set on the Remote Commander. (When the VTR1-2-3 MDP selector is set to VTR2, select "VTR 2." Each time you press AVV WINDOW +/-, "VTR 1," "VTR 2," "VTR 3," "MDP" and "OFF" appear in sequence.

VTR1 2 3 MDP VIDEOZ: OFF VIDEOZ: OFF BOIRECT PLAY

Press RETURN.
The direct play setting is complete.

To set direct play for other connected video equipment Repeat steps  $7-10\,$ 

To return to the previous menu
Press A/V WINDOW +/~ until the cursor points to
" \( \times \) MENU."

Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU on the Remote Commander.

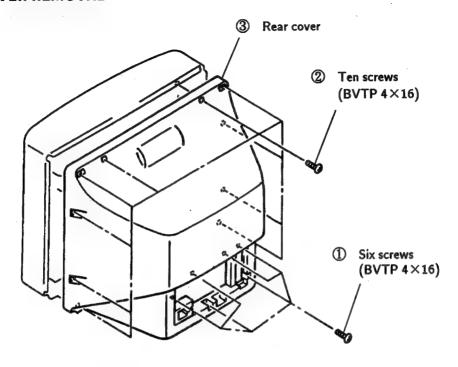
ि Appendix ं Troubleshooting

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

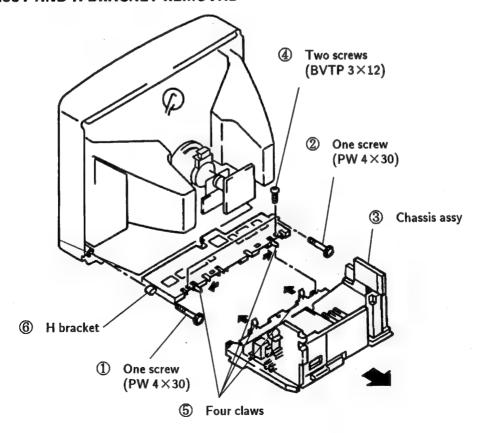
Symptom	Possible causes and remedies
No picture (screen not lit), no sound	<ul> <li>Make sure POWER is switched on.</li> <li>Check the power cord connection.</li> <li>Check that the TV/VIDEO and VTR1-2-3 MDP controls are set connectly.</li> <li>Make sure that the TV/CABLE BOX selector is set to TV.</li> </ul>
Poor or no picture (screen not lit), good sound	<ul> <li>Adjust the picture using the VIDEO screen (pp. 42 – 45).</li> <li>Check the antenna/cable connections.</li> </ul>
Good picture, no sound	Press VOLUME + on the TV or VOL + on the Remote Commender. Press MUTING on the Remote Commander. Check the MTS setting (p. 49). Check that the TVVIDEC and VTR1-2-3 MDP controls are set correctly. Make sure SPEAKER is set to ON (p. 50).
No color for color programs	• Check the HUE and COLOR settings (pp. 42 – 43),
Snow and noise only	<ul> <li>Check that it is an active or correct channel.</li> <li>Check the cable setting.</li> <li>Check the ANT/AUX button setting (KV-27XBR36/32XBR36/32XBR36 only).</li> <li>Check enternal/cable connections.</li> </ul>
Dotted lines or stripes	This is often caused by local interference (for example, cars, neon signs and hairdryers). Adjust the telescopic aerial for minimum interference.
Double images or ghosts	Reflections from nearby mountains or buildings often cause this problem. Connecting a highly directional outdoor antenna or a CATV cable may improve the picture.
Try another ch	Try another channel. It could be station trouble.

### SECTION 2 DISASSEMBLY

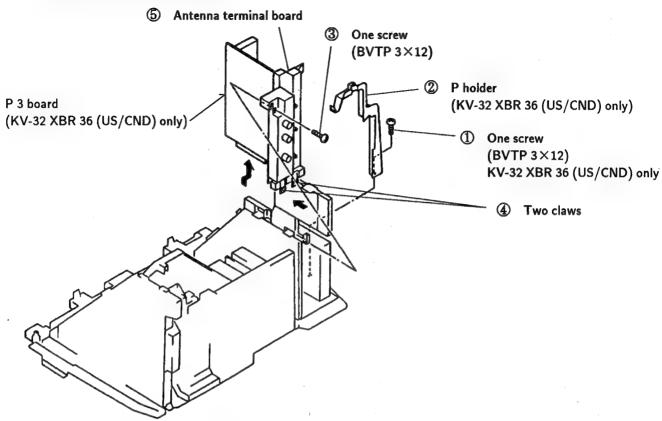
### 2-1. REAR COVER REMOVAL

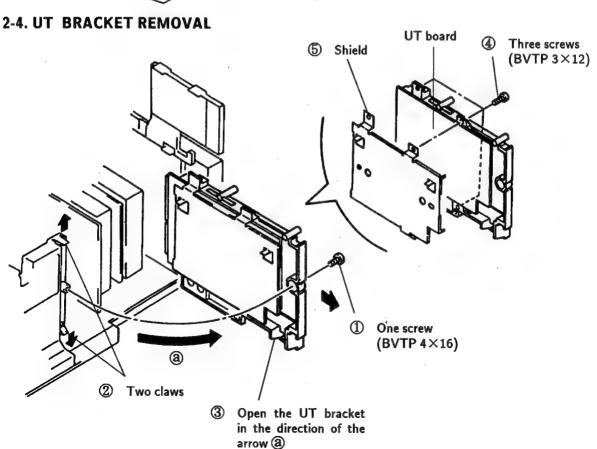


### 2-2. CHASSIS ASSY AND H BRACKET REMOVAL

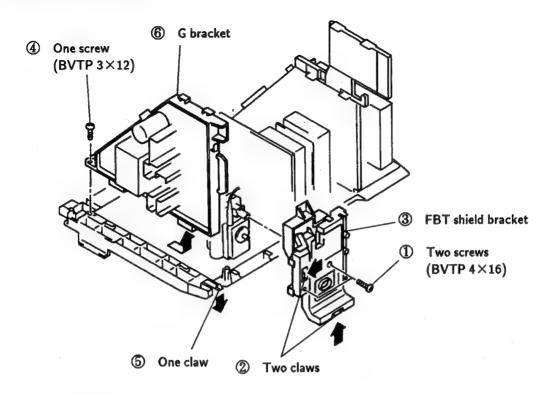


### 2-3. ANTENNA TERMINAL BOARD REMOVAL

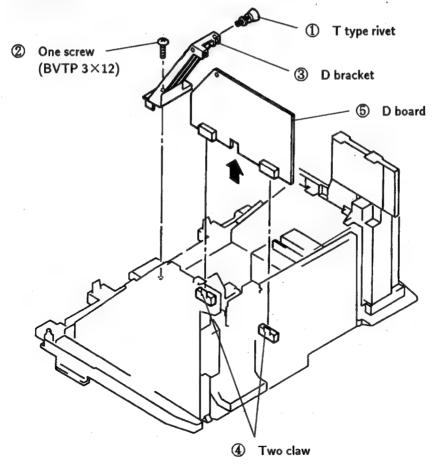




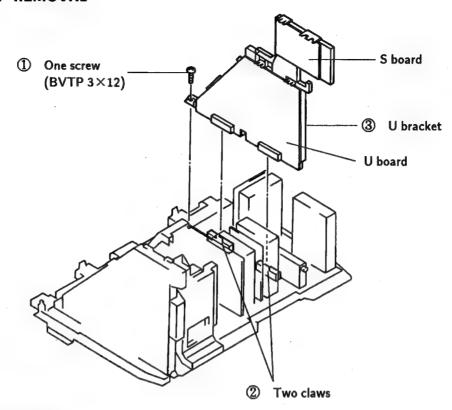
### 2-5. G BRACKET REMOVAL



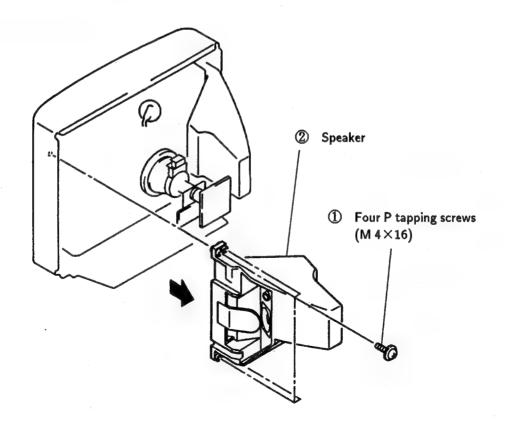
### 2-6. D BOARD REMOVAL

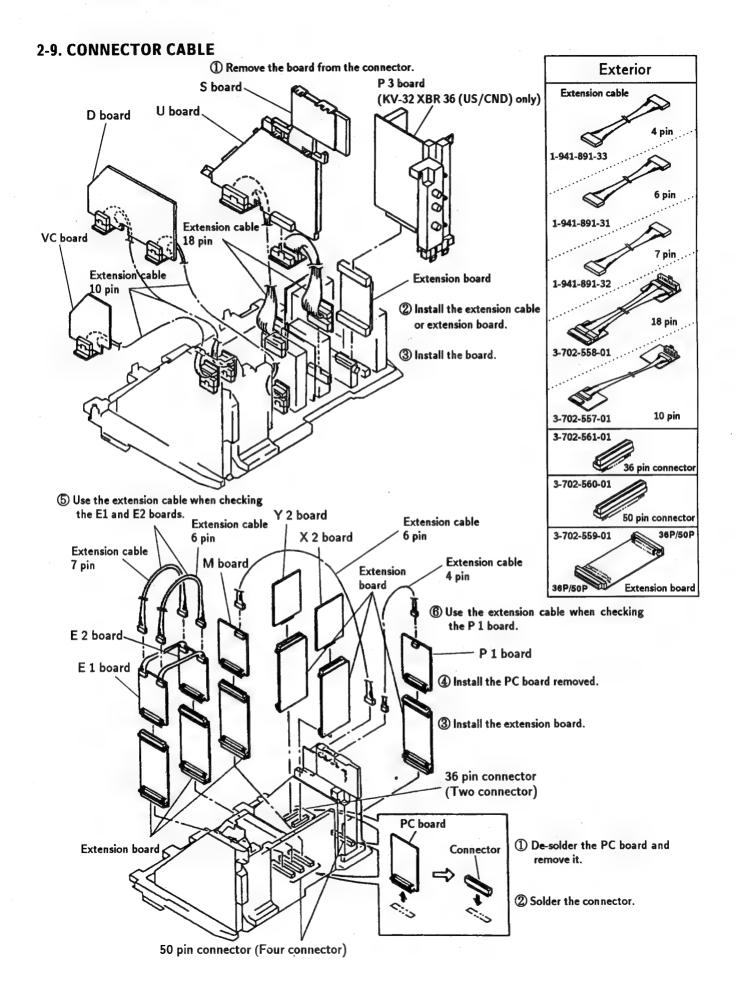


## 2-7. U BRACKET REMOVAL

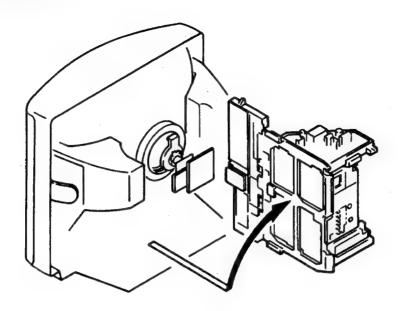


## 2-8. SPEAKER REMOVAL

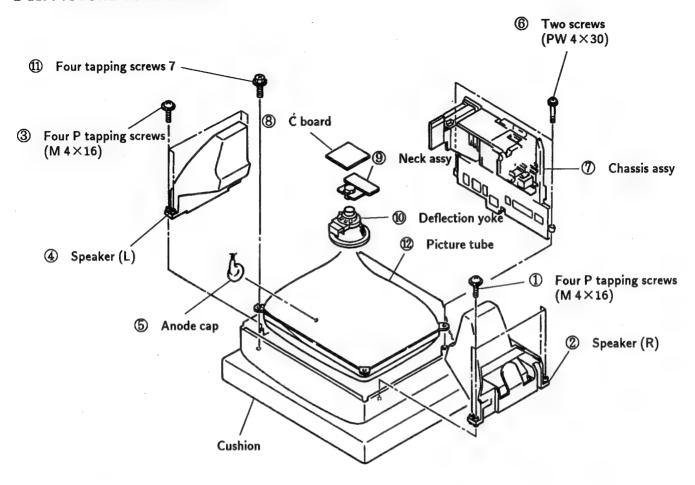




## 2-10. SERVICE POSITION



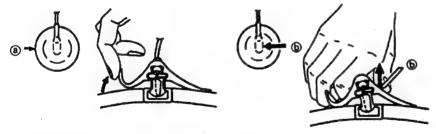
### 2-11. PICTURE TUBE REMOVAL



#### REMOVAL OF ANODE-CAP

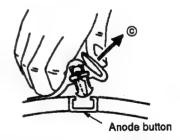
NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

#### REMOVING PROCEDURES



direction indicated by the arrow @.

1 Turn up one side of the rubber cap in the 2 Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).

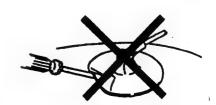


3 When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

#### HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





#### 2-12. REPAIR OF CHIP COMPONENT CIRCUIT BOARD

#### 2-12-1, POINTS OF COMPONENT REMOVAL

#### Handing of blower type soldering iron

If hot blast is too strong or applied from a slanting direction, small components and solder near the component being removed can be blown off. Do not use blower type without temperature control.

#### 2-12-2. NOTES ON SOLDERING FOR CHIP COMPONENTS

- 1) During soldering a chip component, if a soldering iron is applied for a long time, the heat may damage the component or cause pattern peeling.
- 2) Do not reuse a removed component. The characteristics of such a component may deteriorate.
- 3) Use wire solder containing silver (Ø 0.3 or Ø 0.6). (The pin electrodes of the laminated chip capacitor are silver +palladium, so if wire solder which does not contain silver is used, the silver of the pin electrode will be sucked into the solder.)

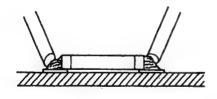
## 2-12-3. REMOVAL AND MOUNTING OF COMPONENTS Chip resistor and chip capacitor

### REMOVAL

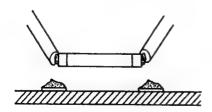
- Using two soldering irons
- 1) Mounted state



2) Melt the solder.

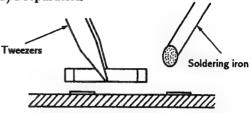


3) Remove the component.



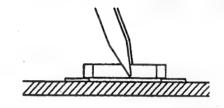
### SOLDERING

1) Preparation

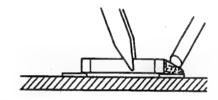


2) Location

Be careful not to misposition.



3) Tack soldering and flux application



4) Soldering

Wire solder

Wire solder

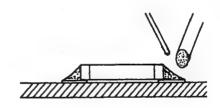
Wire solder

Wire solder

Wire solder

Apply the soldering iron to the chip component and land to heat them and apply solder.

5) Soldering (Fix the fillet.)



6) Visual inspection

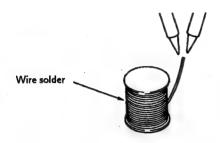
Check for the following defects:

- No-soldered part
- Bridge (to other components or lands)
- Mispositioning
- · Other defects

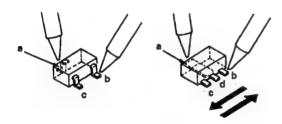
#### 2-12-4. MINI-TRANSISTOR

#### REMOVAL

- · Using two soldering irons
- 1) Put a little solder on the tip of two soldering irons.



2) Apply the tip of one soldering iron to the point "a" and the other to the points "b" → "c" (or "b" → "d" → "c") and move the component in the directions indicated by arrows in the figure to remove it.

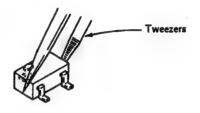


## MOUNTING

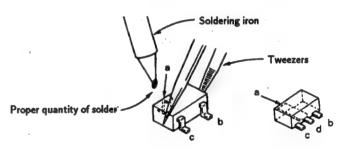
1) Apply a little flux to the land with a brush.



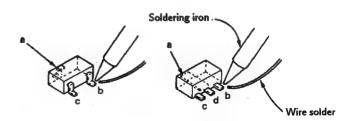
2) Place the component in position using tweezers.



3) Put a little solder on the tip of the soldering iron and solder the point "a" to fix the component.



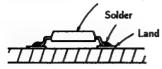
4) Bring the tip of the soldering iron and the wire solder close to the point to be soldered. Solder the points "b" → "c" (or "b" → "d" → "c") in order.

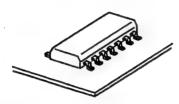


#### 2-12-5. TWO-DIRECTIONAL FLAT PACKAGE IC

#### MOUNT CONDITION

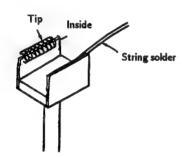
Two-directional flat package IC





## REMOVAL

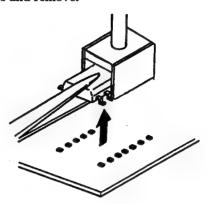
1) Apply some solder on the inside and the tip of the iron tip jig.



2) Place the iron tip jig over the IC, and move the jig to and fro as shown in the figure.



3) When the solder melts, lift the IC with a pair of tweezers and remove.

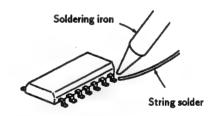


## INSTALLATION

1) Place the two-directional flat package IC at the appointed position, solder pins a and b on the diagonal, and fasten it.

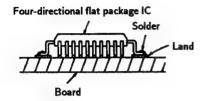


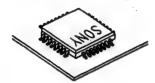
2) Solder the remaining pins with the soldering iron.



#### 2-12-6, FOUR-DIRECTIONAL FLAT PACKAGE IC

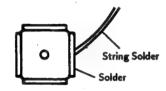
## MOUNT CONDITION



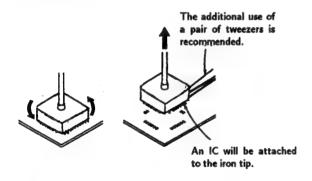


### REMOVAL

1) Apply solder on the tip of the iron tip jig.



2) Place the iron tip jig over the IC, wait about two to three seconds, rotate the iron slightly and lift it up.



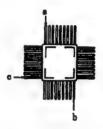
Note: For flat ICs of above 52 P, the IC may not be completely attracted when the iron tip jig is lifted up. In these cases, use a pair of tweezers to remove.

## INSTALLATION

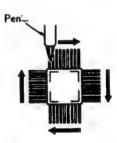
1) Place the four-directional flat package IC at the appointed position.



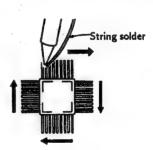
 Apply a slight amount of solder on the iron tip, and solder the three sections in the order of a → b → c, and fix.



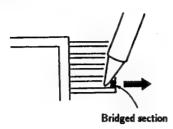
 Apply a slight amount of flux with a pen on all four directions.



4) Apply solder on the iron tip and the string solder, and slide and solder in the directions of the arrows.

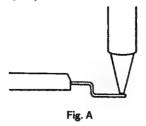


Note: 1) After soldering, if there are bridged sections, correct by sliding the soldering iron in the direction of the arrow.

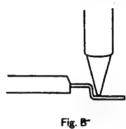


If the bridges cannot be corrected using the above method, apply some flux with a pen and try again.

2) Soldering can be carried out more easily by sliding the iron tip near the tip of the IC leg. (Fig. A)



Be careful not to slide the bent sections of the leg as shown in Fig. B as soldering bridges will be formed.



Exterior	Description	Part No.		Measu	re (mm)	
LALEFIOI	Description	rait No.	Α	В	С	D
А	jig for removing 4-sided flat package IC	3-702-554-01  " 11  " 21  " 31  " 41  " 51	12.5 15.5 16.3 17.0 23.0 20.0	9.5 12.5 13.3 14.0 20.0 17.0	12.5 15.5 16.3 17.0 17.0 20.0	9.5 12.5 13.3 14.0 14.0 17.0
B	jig for removing 2-sided flat package IC	3-702-555-01  " 11  " 21  " 31  " 41	6.0 6.0 7.0 9.0 9.0	5.0 10.0 12.5 15.2 18.0		
	soldering iron	3-702-552-01	55 W 60 g length 210 mm			
	soldering holder	3-702-553-01				

## **SECTION 3**

### SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

PICTURE control . . . . . . . . . RESET BRIGHTNESS control . . . . . . . . center

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
  - . White Balance

Note: Test Equipment Required.

- 1. Color-bar/Pattern Generator
- 2. Degausser
- 3. Oscilloscope

#### Preparations:

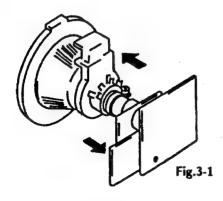
- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

## 3-1. BEAM LANDING

- Input the white signal with the pattern generator.
   Contrast Bightness normal
- 2. Position neck ass'y as shown in Fig 3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.

(See Figures 3-1 through 3-3.)

- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
  (See Figure 3-4.)



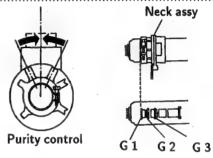


Fig.3-2

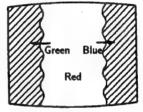
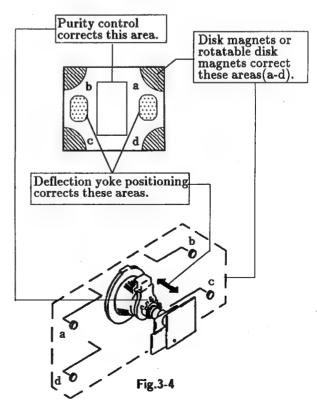


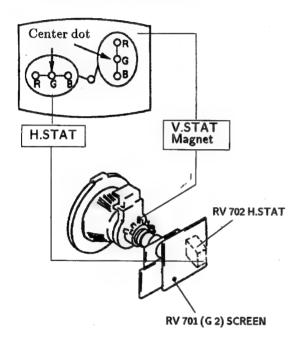
Fig.3-3



#### 3-2. CONVERGENCE

#### Preparation:

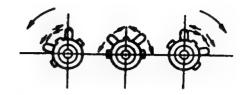
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.
- (1) Horizontal and Vertical Static Convergence



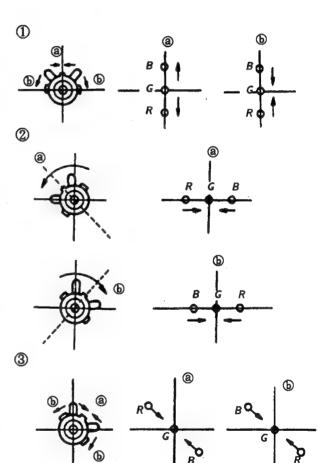
- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
- (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
  (In this case, the H.STAT variable resistor and the

(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

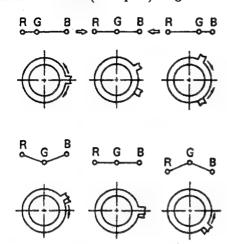
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



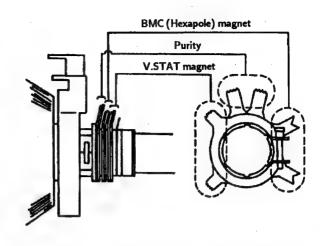
• Operation of BMC (Hexapole) Magnet



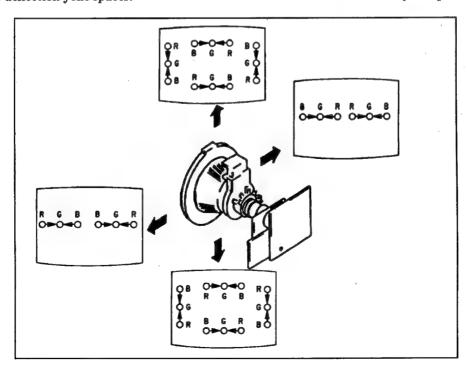
 The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
 Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

## (2) Dynamic Convergence Adjustment Preparations:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.



- Y separation axis correction magnet adjustment
- 1. Receive the cross-hatch signal, and adjust [PIX] to "MIN" and [BRT] to "standard".
- 2. Adjust the deflection yoke to the upright condition when it hits the CRT.
- 3. Adjust so that the Y separation axis correction magnet on the neck assembly is symmetrical at the top and bottom (open state).
- 4. Return the deflection yoke to its original position.
- Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Install the defelection yoke spacer.



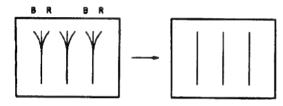
### (3) Dynamic Convergence Circuit Adjustment

- · Set to Service Mode.
- · Input a cross-hatch signal.
- Press 1 and 4 serect an item of adjustments.
- Adjust 3 and 6 to the best picture.

ITEM	REFERENCE DATA	NAME REGISTE	
UYBO	39	VP	U. Y. BOW
LYBO	· 39	VP	L. Y. BOW
HAMP	26	VP	H. AMP
HTILT	36	VP	H. TILT
UCBO	20	VP	U. C. BOW
UTIL	44	VP	U. TILT
LCBO	31	VP	L. C. BOW
LTIL	63	VP	L. TILT
DCSH	19	VP	DC. SHIFT

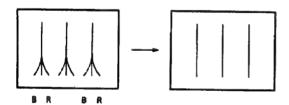
#### U. YBOW

Select UYBO with 1 and 4



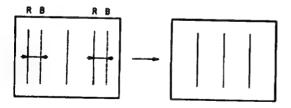
#### L. YBOW

Select LYBO with 1 and 4



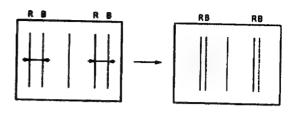
### H. AMP

Select HAMP with 1 and 4



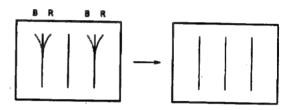
#### H. TILT

Select HTILT with  $\boxed{1}$  and  $\boxed{4}$ 



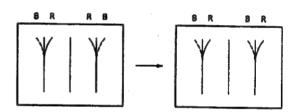
#### U. CBOW

Select UCBO with 1 and 4



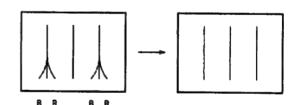
#### U. TILT

Select UTIL with 1 and 4



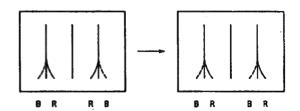
#### L. CBOW

Select LCBO with 1 and 4

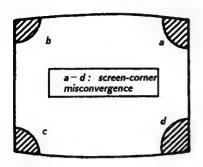


#### L. TILT

Select L. TIL with 1 and 4

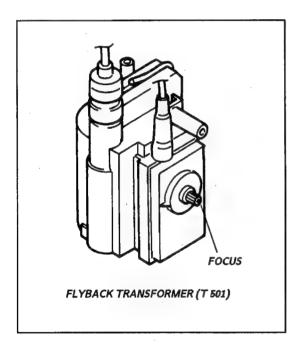


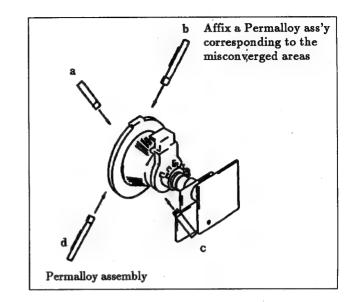
### (4) Screen-corner Convergence



## 3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for a best focus.





## 3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

#### 1. G 2 (SCREEN) ADJUSTMENT(RV 701)

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Confirm G 1 voltage is within  $30.0 \pm 5$  V.
- Apply DC voltage of 180 V to the cathodes of R,G and B from DC stabilized power source.
- 4) While watching the picture, adjust the G2 control (RV 701) to the just the retrace line disappears.

(Using the Remote Commander)

#### 2. WHITE BALANCE ADJUSTMENTS

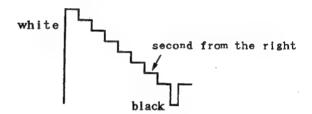
- ※ ELECTRICAL ADJUSTMENT BY REMOTE
  COMMANDER (See page 55, 56)
- 1) Set to service mode.
- 2) Press STANDARD to normal and if necessaries "TRINITONE" set to "LOW" by + or -.
- 3) Input an entire white signal.
- 4) Set the PICTURE to minimum.
- 5) Select S BRT with 1 and 4, and then set the level to minimum with 3 and 6.
- 6) Select G CUT and B CUT with and 4.
  And adjust the level with and 6 for the best white balance.
- 7) Set the PICTURE to maximum.
- 8) Select G AMP and B AMP with 1 and 4 and adjust the level with 3 and 6 for the best white balance.
- 9) Write into the memory by pressing MUTING → then ENTER.

## - WHITE BALANCE ADJUSTMENT OF THE WINDOW PICTURE -

- 1) Press P/P to display a window picture.
- 2) Input an entire-white signal.
- 3) Adjust RV 3003 (SUB BRT) on P 1 board to control the window as similar to the white pattern as possible.

#### 3. SUB BRIGHT ADJUSTMENT

- 1) Set to service mode.
- 2) Input a staircase signal of black and white from the pattern generator.
- 3) BRIGHTNESS ··· RESET PICTURE ······ minimum
- 4) Select SBRT with 1 and 4, and adjust SUB BRIGHT level with 3 and 6 so that the stripe second from the right is dimly lit.



RM-Y112A TDR-IF310/RM-Y113A

## SECTION 4 SAFETY RELATED ADJUSTMENTS

#### A BOARD

## ■ R565 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with 
on the schematic diagram).
IC502,Q509,Q510,R565,R567,R568,R569

1

- 1. Preparation before confirmation
- 1) Remove R651 on the G board and connect a variable resistor (RV1: about  $10k\Omega$ ) between pin ① of IC651 and B+ line.
- 2) Supply 120±2.0V AC to with variable autotransformer.

2. Hold-down operation confirmation

- 1) Turn the POWER switch ON, and input an entirely white signals and adjust ABL current to  $1640\pm20\mu\mathrm{A}$  with PICTURE and BRIGHT etc controls.
- Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is less than 152.0V DC whereby the raster disappears during operation of hold-down circuit.

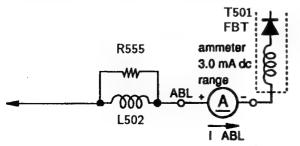
NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

- 3) Turn the POWER switch ON, and input a dot signals and adjust ABL current to  $140 \pm 20 \mu A$  with PICTURE and BRIGHT etc controls.
- 4) Increase B+ line voltage gradually by adjusting the resistor of RV1. Confirm that the minimum voltage is lower than 154.5V DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the Hold-down circuit starts operating, switch OFF the POWER of the set immediately.

#### 3. Hold-down readjustment

When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R565 (a component marked with  $\blacksquare$ ).



#### A BOARD

## ■ R566 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components (marked with ☑ on the schematic diagram). IC502,IC651,Q509,Q510,D502,C531,R554,R566,R567,R568,R569,R651,R1506,T501

1. Preparation before confirmation

- 1) Turn the POWER switch ON, and input an entirely white signals and set the PICTURE and BRIGHT controls to maximum.
- 2) Confirm that voltage of the check terminal of pin② of A-0 connector is more than 100.0V DC when the set is operating normally with 120.0± 2.0V AC supply.

#### 2. Hold-down operation confirmation

- 1) Turn the POWER switch ON, and input an entirely white signals and set the PICTURE and BRIGHT controls to maximum.
- 2) Apply DC voltage of over 130±2.0V DC gradually to the check terminal of pin ② of A-0 connector via 1SS119 from the DC stabilized power source.

Confirm that the minimum voltage is lower than 120.5V DC whereby the raster disappears during operation of hold-down circuit.

NOTE: When the hold-down circuit starts operating, switch OFF the POWER of the set immediately.

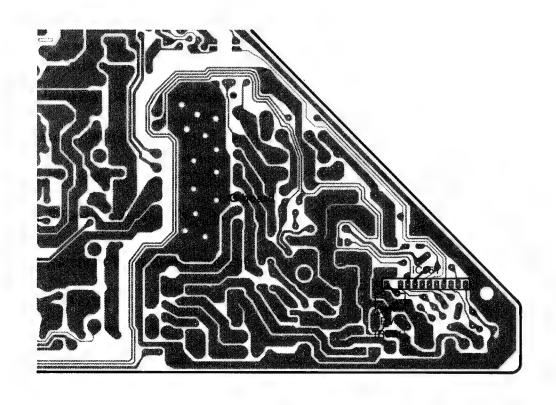
#### 3. Hold-down readjustment

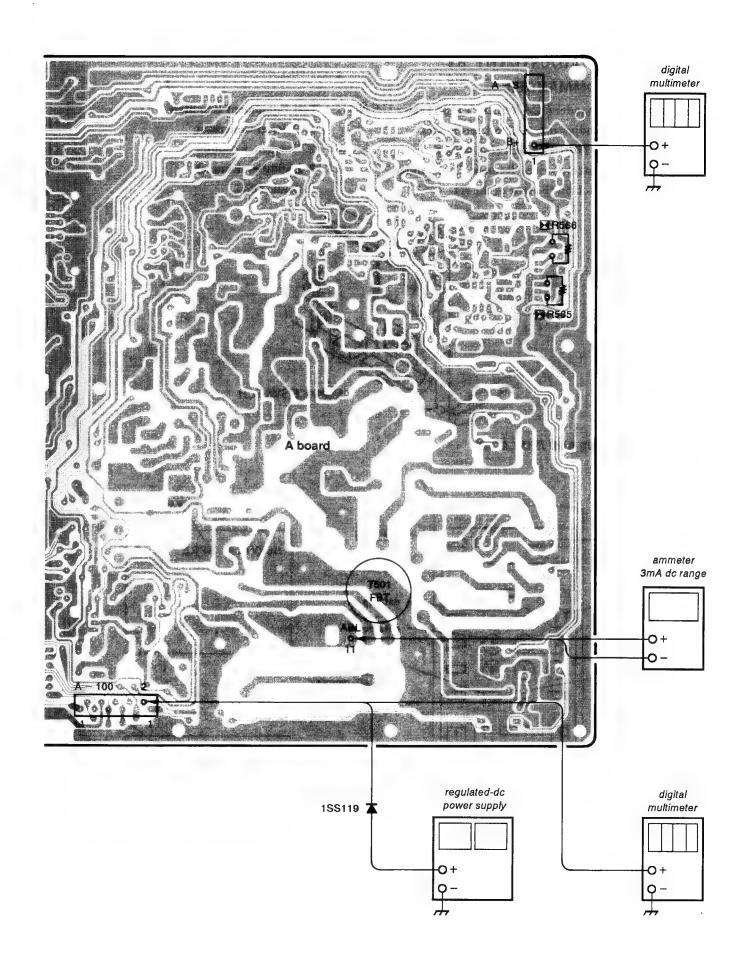
When step 2 is not satisfied, readjustment should be performed by altering the resistance value of R566 CARBON 1/4W (a component marked with ►).

## **B+ VOLTAGE CONFIRMATION**

The following adjustments should always be performed when replacing IC651 and R651.

- 1) Supply 130±20V AC to with variable autotransformer.
- 2) Input an entirely monoscope signal.
- 3) Set the PICTURE control and the BRIGHT controls in to initial reset.
- 4) Confirm the voltage of A BOARD ① pin A-3 connecter is less than 136.5V DC.
- 5) If step 4) is not satisfied, replace IC651 and R651 repeat above steps.





RM-Y112A TDR-IF310/RM-Y113A

# SECTION 5 CIRCUIT ADJUSTMENTS

# 5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

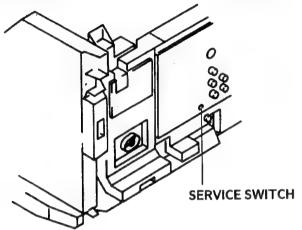
Use of Remote Commander (RM-Y112A, Y113A) can be performed circuit adjustments about this model.

## 1. METHOD OF SETTING THE SERVICE MODE

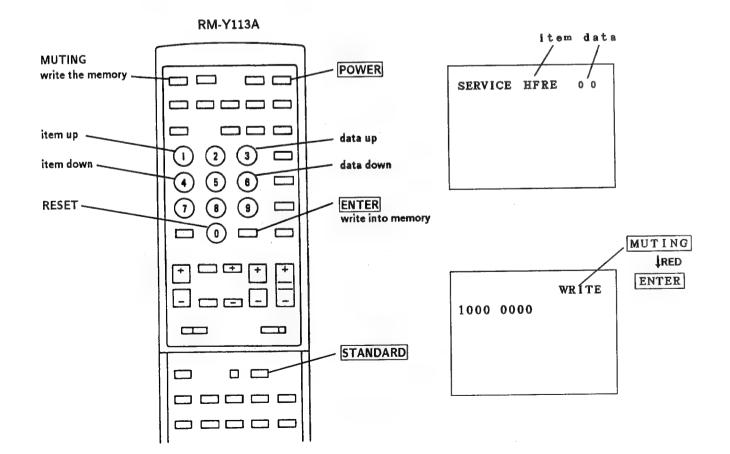
1) Press POWER button on the Remote Commander while pressing switch on the rear of the set.

NOTE: Test Equipment Required.

- 1. Pattern Generator
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio OSC



## 2. ADJUST BUTTONS AND INDICATOR



#### 3. AN ITEM OF ADJUSTMENT

ITEM	REFERENCE	NAME REGIST		
ITEM	DATA			
AFC	1	VP	AFC 1.0	
HFRE	93	VP	H. FREQUENCE	
VFRE	15	VP	V. FREQUENCE	
VPOS	19	VP	V. SHIFT	
VSIZ	32	VP	V. SIZE	
VLIN	2	VP	V. LINEARITY	
VSCO	3	VP	VS. CORRECTION	
HPOS	9	VP	H. PHASE	
HSIZ	25	VP	H. SIZE	
PAMP	17	VP	PIN. AMP.	
CPIN	4	VP	CORNER PIN	
PPHA	8	VP	PIN. PHASE	
VCOM	2	VP	V. COMP	
GAMP	19	VP	GREEN AMP.	
BAMP	· 9	VP	BLUE AMP.	
GCUT	8	VP	GREEN CUT OFF.	
BCUT	6	VP	BLUE CUT OFF	
SPIX	40	VP	PICTURE	
SHUE	29	VP	HUE	
SCOL	30	VP	COLOR	
SBRT	40	VP	BRIGHT	
RGBP	28	VP	RGB PICTURE	
SHAP	7		SHARPNESS	
DISP	35		OUTPUT	
VSMO	0	VP	VSMO	
REF	2	VP	REF 1.0	
ROFF	1	VP	OFF NR	
GOFF	1	VP	OFF NG	
BOFF	1	VP	OFF NB	
ABLM	0	VP	ABLM	
DŖGB	1	VP	D RGB	
YBOW	31	DE	Y BOW	
VANG	35	DE	V. ANGLE	
HTAP	31	DE	H. TRAP	
TEST	0	AP	T	
MPX	7	AP	ATT	
FILO	31	AP	11	
DEEM	7	AP	12	
STEV	31	AP	OSC 1	
SAPV	31	AP	OSC 2	
PILO	7	AP	PILOT	
SEP	31	AP	WIDE BAND	
VD	7	AP	SPECTRAL VOLUME-L	
LVOL	0	AP		
RVOL	0	AP	VOLUME-R	
BASS	7	AP	BASS	
TRE	7	AP	TREBLE	

UYBO	39	DC	U.Y. BOW
LYBO	39	DC	L.Y. BOW
HAMP	26	DC	H.AMP
HTIL	36	DC	HTILT
UCBO	20	DC	U.C. BOW
UTIL	44	DC	U.TILT
LCBO	31	DC	L.C. BOW
LTIL	63	DC	L.TILT
DCSH	19	DC	DC. SHIFT
PHPO	34	PI	READ DELAY H
PVPO	8	PI	READ DELAY V
PLEV	14	PI	PICTURE LEVEL
PFCO	111	PI	FRAME COLOR
NRLE	30		NR LEVEL
DSPP	31		

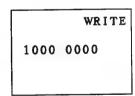
## 4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press POWER button on the commander) in the next place, press POWER button again, hereupon it becomes TV mode.

### 5. METHOD OF WRITE FOR MEMORY

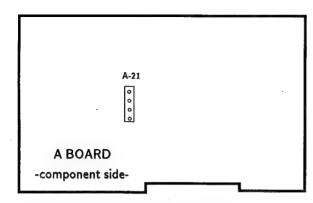
- 1) Set to Service Mode.
- 2) Press 1 (UP) and 4 (DOWN), select an item of adjustments.
- 3) Press MUTING button indicate WRITE (RED)
- 4) Press ENTER button to write for memory.

#### 6. MEMORY WRITE CONFIRMATION METHOD



- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.

#### 5-2. A BOARD ADJUSTMENTS



## RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Adjust AGC VR of TU 101 so that snow noise and cross-modulation disappear from the picture.
- 3) Confirm them at every channel.

### H.FREQUENCY ADJUSTMENT (HFRE)

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Connect a frequency counter to base of Q 507.
- 4) Call the item of AFC, set to 3 level (free run).
- 5) Select HFRE with 1 and 4.
- 6) Adjust 3 and 6 to the  $15735 \pm 60$  Hz level.
- 7) Call the item of AFC again, adjust the level" 01".
- 8) Write into the memory by pressing MUTING → then ENTER.

## V.FREQUENCY ADJUSTMENT (VFRE)

- 1) Set the Service Mode.
- 2) Input an off-air signal (VIDEO IN  $\rightarrow$  no signal).
- Connect the frequency counter across connector
   VDY ⊕ of DY-1 connector and ground.
- 4) Select VFRE with 1 and 4.
- 5) Adjust  $\boxed{3}$  and  $\boxed{6}$  to the 55  $\pm 0.5$  Hz.
- 6) Write the memory by pressing MUTING → then ENTER .

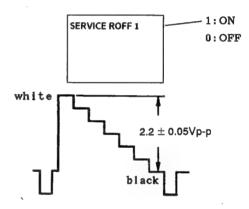
### SUB CONTRAST ADJUSTMENT (SPIX)

- 1) Set to Service Mode.
- 2) Input a color-bar signal. (75 IRE)
- 3) Set the conditions as follows.

PICTURE ...... MAX
COLOR ...... MIN
BRIGHT ..... MIN
R OFF ..... ON
G OFF ..... OFF
B OFF ..... OFF

Press $\overline{\text{MENU}}$  and select VIDEO MENU  $\rightarrow$  (L) (It becomes minimum).

Select 3 (ON) and 6 (OFF) with 1 and 4.

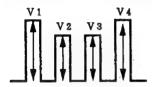


- 4) Connect an oscilloscope to TP49B of C board and ground.
- 5) Adjust 3 and 6 to the 2.2 ± 0.05 Vp-p level by selecting SPIX with 1 and 4.
- 6) Write the memory by pressing MUTING → then ENTER.
- Return the following back to normal after adjustment.

G OFF ...... ON
B OFF ..... ON
COLOR ..... CENTER
BRIGHT .... CENTER
PICTURE ..... 80%

## SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

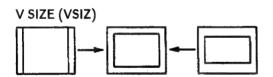
- 1) Input a color-bar signal.
- 2) Press STANDARD to normal.
- 3) Set to Service Mode.
- 4) Connect an oscilloscope to TR 49 R of C board and ground.
- 5) Adjust 3 and 4 to the V1=V4 and V2=V3 by select to SHUE and SCOL with 1 and 4.



6) Write into the memory by pressing MUTING →then ENTER .

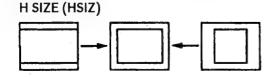
#### V.SIZE ADJUSTMENT (VSIZ)

- 1) Set to Service Mode.
- 2) Press STANDARD to normal.
- 3) Input a cross-hatch signal.
- 4) Adjust 3 and 6 to the best vertical size by selecting VSIZ with 1 and 4.
- 5) Write into the memory by pressing MUTING →then ENTER.



## H.SIZE ADJUSTMENT (HSIZ)

- 1) Input a cross-hatch signal.
- 2) Press STANDARD to normal.
- 3) Set to Service Mode.
- 4)Adjust 3 and 6 to best horizontal size by selecting HSIZ with 1 and 4.
- 5) Write into the memory by pressing MUTING →then ENTER.

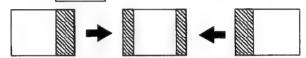


## H.CENTER ADJUSTMENT (H POS)

Note: Perform this adjustment after H.FREQUENCY ADJUSTMENT (HFRE).

- 1) Input a color bar signal.
- 2) Set the Service mode.
- 3) Select HSIZ with 1 and 4.
- 4) Press 6 so that the Horizontal size set to min.
- 5) Adjust A-21 conector position so that both-size branking width of the Raster should be same on the Scrnne.
- 6) Unplug Set then plug in Set.
- 7) Set to Service mode.
- 8) Select HPOS with 1 and 4.
- 9) Adjust 3 and 6 so that the color bars center should be set to the CRT Screen center position.
- 10) White into the memory by the pressing MUTING

  → then ENTER .



PIN AMP (PAMP), CORNER PIN (CPIN) PIN PHASE (PPHA), H TRAPIZOID (HTRA) V LINEARITY (VLIN), V ANGLE (VANG), VS CORRECTION (VSCO), Y BOW (YBOW), V SHIFT (VPOS), AND V COMP (VCOM) ADJUSTMENTS

- 1) Input a cross-hatch signal.
- 2) Press STANDARD to normal.
- 3) Set to Service Mode.
- 4) Select PAMP, CPIN, PPHA, H TRA, VPOS, VCOM, LVIN, VANG, VSCO and YBOW with 1 and 4.
- 5) Adjust 3 and 6 to the best picture.
- 6) Write the memory by  $MUTING \rightarrow ENTER$ .

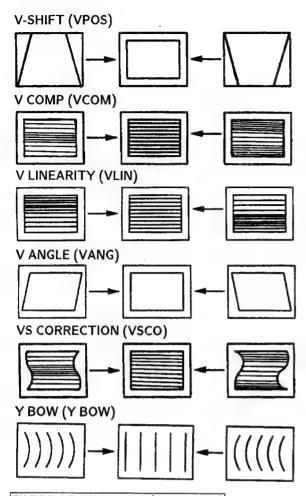
PIN AMP (PAMP)

CORNER PIN (CPIN)

PIN PHASE (PPHA)

H TRAPIZOIDO (HTRA)

RM-Y112A TDR-IF310/RM-Y113A

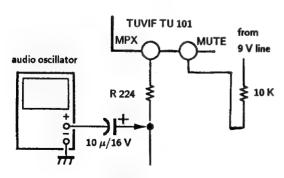


#### FILTER ADJUSTMENT (MPX, FILO)

- 1) Set to Service Mode.
- 2) Select to TEST with 1 and 4, set the data to "1".

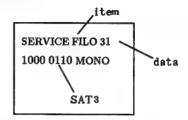
  Then select MPX and change data to "08".
- 3) Connect an audio oscillator to R224 using a capacitor ( $10\mu$  F/16V), set frequency to 62.936 kHz  $\pm 0.1$  kHz.

And then, through the  $10k\Omega$  resistor, feed 9.0V into the mute of TUVIF TU 101.



V 4 fh : SINE-WAVE 62.936 KHz  $\pm$  0.1 KHz LEVEL 3.0 Vp-p

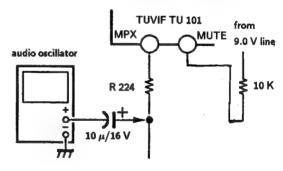
- 4) Make the data "00" by selecting FILO with 1 and 4 And then, send up the data gradually by pressing 6. Set the data to D1 before SAT3 changing to 1 from 0.
- 5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
- 6) Adjust the data of FILO to  $\frac{D \ 1 + D \ 2}{2}$ .
- 7) Write into the memory by pressing MUTING → then ENTER.



## ST VCO ADJUSTMENT (MPX, STEV)

- 1) Set to Service Mode.
- 2) Select TEST with 1 and 4, set the data to "1".

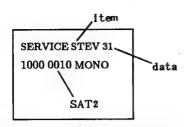
  And then press MTS to MONO.
- 3) Select MPX, set the data "8".
- 4) Connect an audio oscillator to R 224 using electrolytic capacitor ( $10\mu \, \text{F}/16\text{V}$ ) and apply the frequency Vst. Then, apply DC voltage to mute of TUVIF TU 101 using  $10\text{k}\Omega$  connect to 9.0 V line.



Vfh: SINE-WAVE 15.734 KHz ± 0.1 KHz LEVEL 0.28 Vp-p

- 5) Select STEV with 1 and 4, set the data to "00" with 6. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
- 6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
- 7) Adjust the data of STEV to
- 8) Write into the memory by pressing  $\boxed{\text{MUTING}} \rightarrow \text{then} \boxed{\text{ENTER}}$ .

RM-Y112A TDR-IF310/RM-Y113A



### MPX IN LEVEL ADJUSTMENT (MPX)

- 1) Set to Service Mode.
- 2) Select TEST with 1 and 4, set the data to "0" with 6. And then press MTS to MONO.
- 3) Select MPX with 1 and 4, set the data to "08" with 3 and 6.
- 4) Write into the memory by pressing MUTING → then ENTER.

### PILOT CANCEL ADJUSTMENT (PILO)

- 1) Set to the Service Mode.
- 2) Select PILO with 1 and 4, set the data to "08" with 3 and 6.
- 3) Write into the memory by pressing MUTING

  → then ENTER .

## SAP VCO f ADJUSTMENT (SAPV)

- 1) Set to Service Mode.
- 2) Input a stereo broadcast signal with SAP.
- 3) Select TEST with 1 and 4, set the data to "0".

  And then, press MTS to MAIN.
- 4) Connect a digital multimeter to TP-1(DBX). This voltage reading will equal V 1.
- 5) Press MTS to SAP and this voltage will equal V 2.
- 6) Select SAPV with  $\boxed{1}$  and  $\boxed{4}$ , adjust  $\boxed{3}$  and  $\boxed{6}$  so that  $V = V 1 \pm 0.03 \text{ VDC}$ .
- 7) Write the memory by  $\boxed{\text{MUTING}} \rightarrow \boxed{\text{ENTER}}$ .

## SEPARATION ADJUSTMENT (SEP)

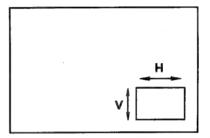
- 1) Set to Service Mode.
- 2) Press MTS to MAIN and receive a monoral broad -cast signal.

In the next step, receive a stereo broadcast signal.

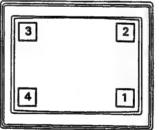
3) Select SEP and VD with 1 and 4, adjust 3 and 6 so that a clear stereo sound is effected.

### READ DELAY H/V (PHPO, PVPO)

- 1) Input a cross hatch signal.
- 2) Set to service mode.
- Press P/P a display a window picture.
   (RIGHT LOWER Position)
- 4) Select PHPO, PVPO with 1 and 4
- 5) Adjust 3 and 6 to the READ DELAY H/V.
- 6) Write the memory by pressing MUTING → then ENTER.



Note: Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.

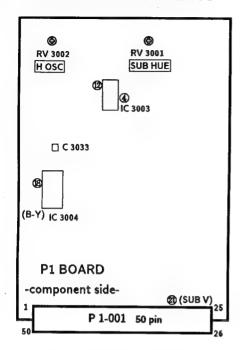


**PIP** Positions

After making adjustments into the PIP 1 position, write the information into the ROM.

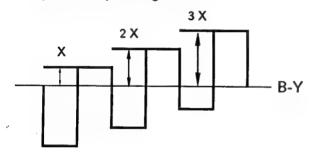
Next, unplug the unit and recheck the other three positions. Adjustments made to the number 1 position will affect the other three positions.

#### 5-3. P1 BOARD ADJUSTMENTS



## SUB HUE ADJUSTMENT (RV 3001)

- 1) Set HUE and COLOR to the standard condition.
- 2) Make adjustment so that B-Y signal as shown to the right is obtained at the crossing point of R 3009 (0  $\Omega$ ) and C 3033.
- 3) Supply the color bar signal of 75 IRE (white) at 2 Vpp to Pin 21 (SUB V) of P1-001 and make adjustment by turning RV 3001.

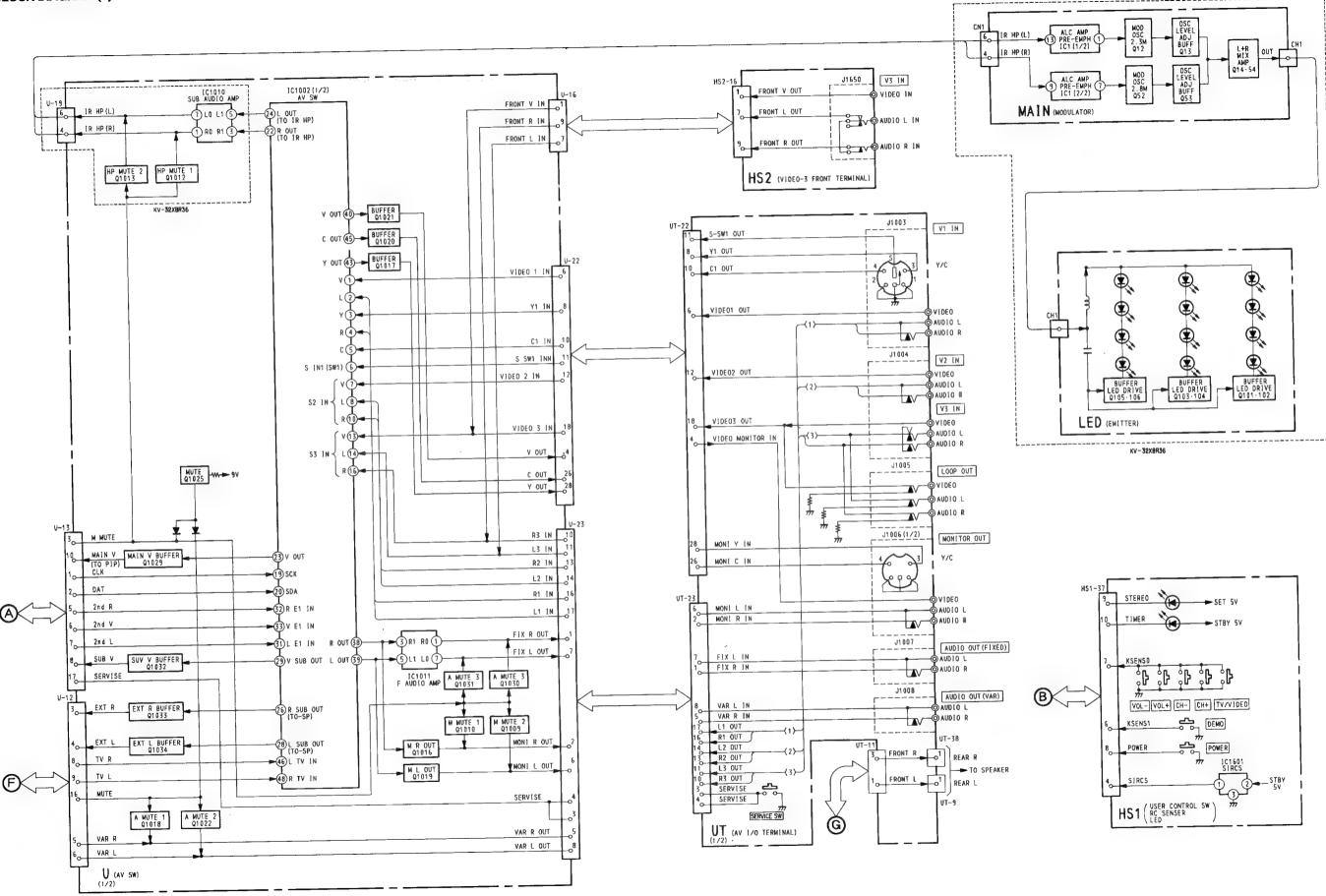


## H. FREQUENCY (H OSC) ADJUSTMENT (RV-3002)

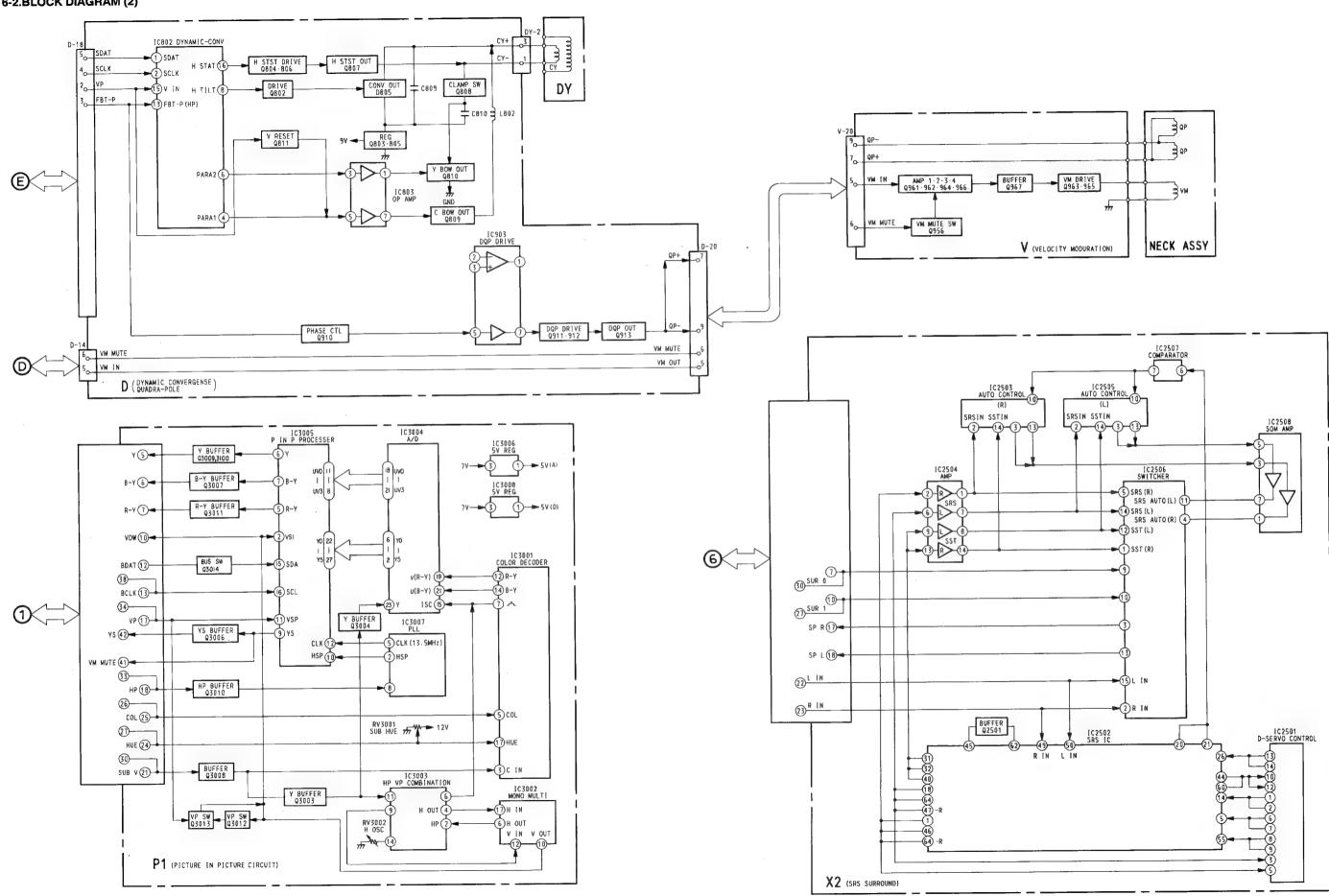
- 1) Connect a frequency counter to Pin (H OUT) of IC 3003.
- 2) Connect Pin 2 of IC 3003 to ground.
- 3) Adjust RV3002 for a frequency of 15.734 kHz ± 50 Hz at Pin (4) of IC 3003.
   (or until the frequency comes to a standstill.)

MEMO	•
	•••••
	***************************************
	,

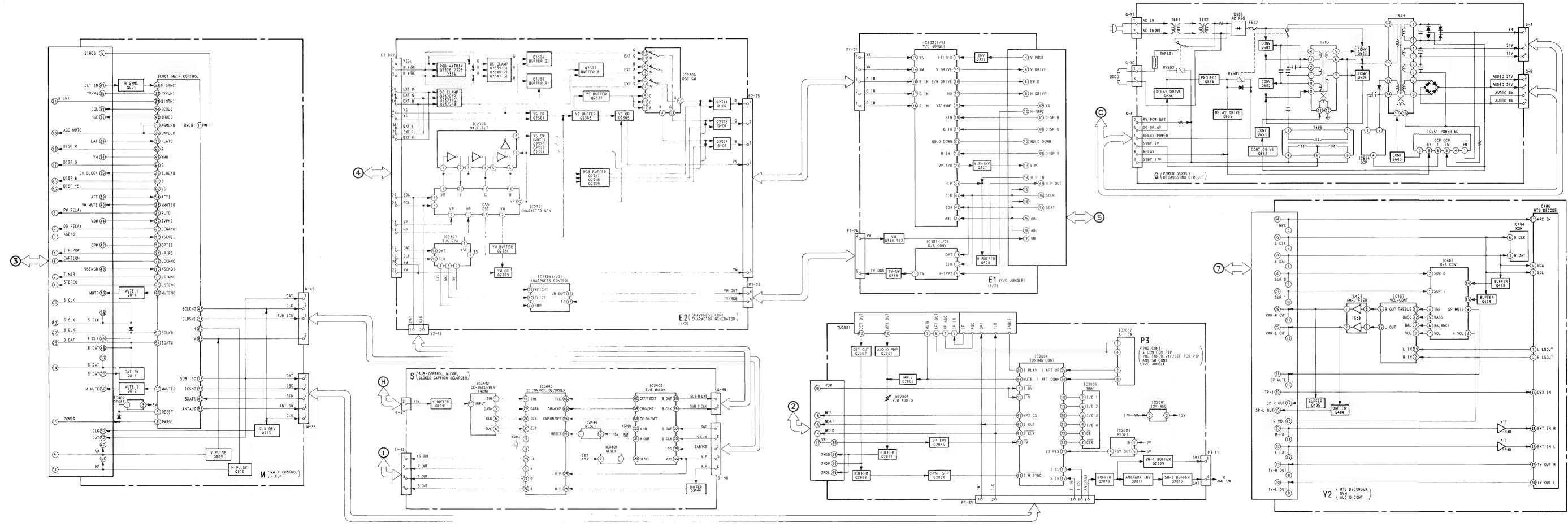
6-1.BLOCK DIAGRAM (1)



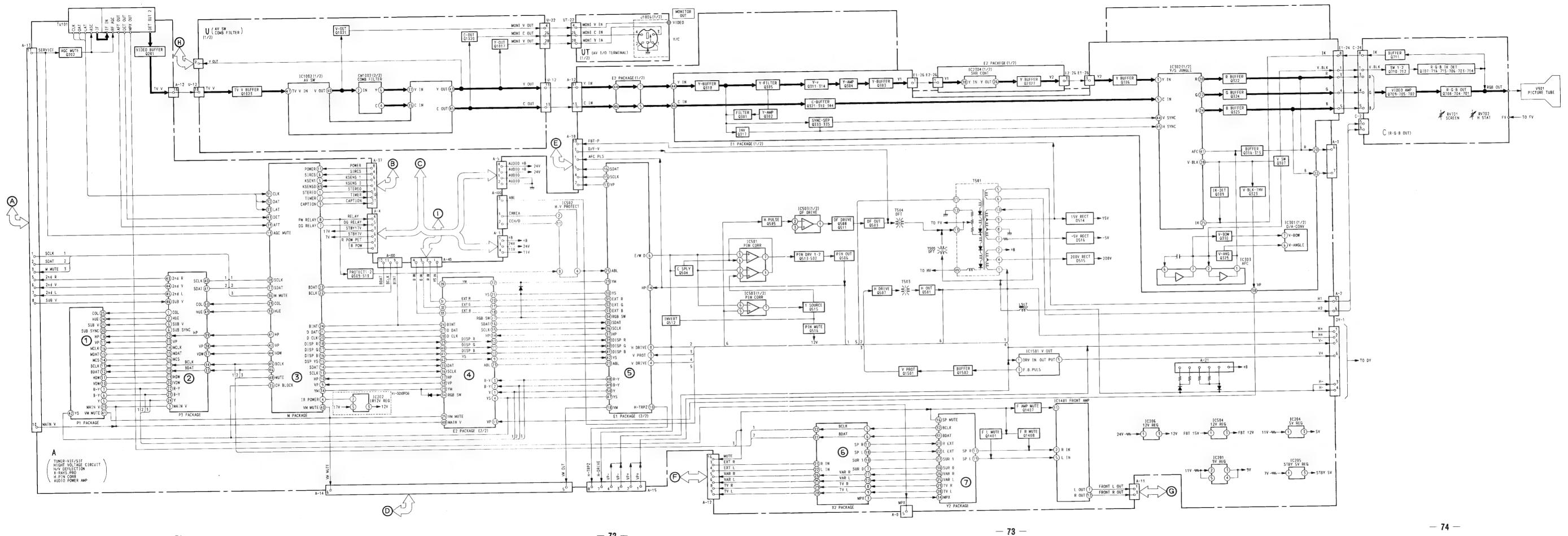
#### 6-2.BLOCK DIAGRAM (2)



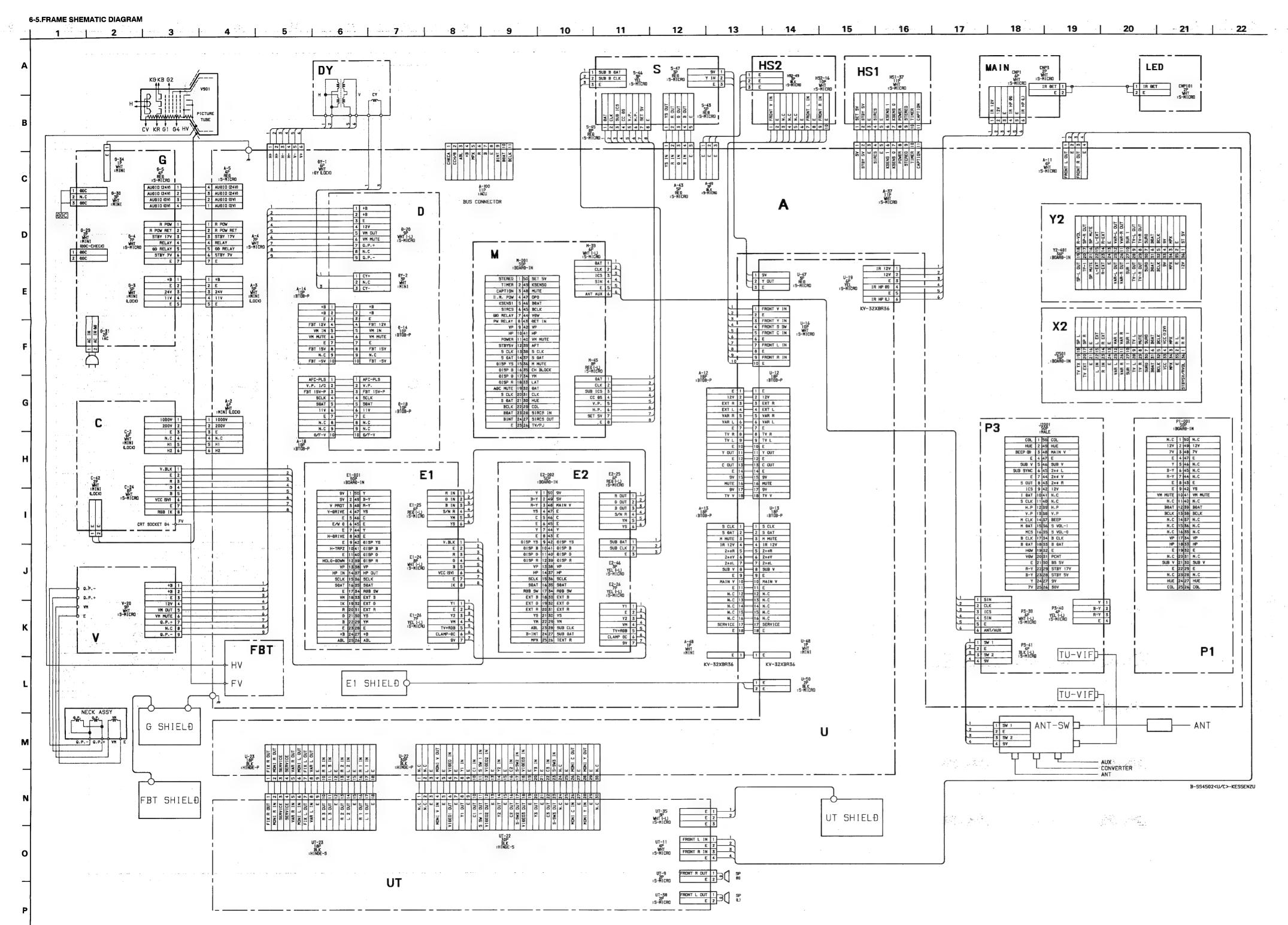
## 6-3.BLOCK DIAGRAM (3)







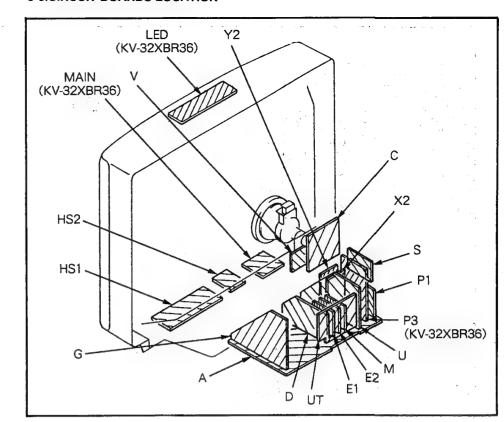
RM-Y112A TDR-IF310/RM-Y113A



— **76** —

— 7.5 —

### 6-6.CIRCUIT BOARDS LOCATION



#### 6-7.SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- · All resistors are in ohms.  $K\Omega = 1000\Omega$ ,  $M\Omega = 1000K\Omega$
- · Indication of resistance, which does not have one for rating electrical power, is as follows.

## Pitch: 5 mm

Rating electrical power 1/4W

- · Chips resistors are 1/10W.
- [w]: nonflammable resistor.
- \( \lambda \): internal component.
   panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic
- curve B, unless otherwise noted.
- \_\_\_: earth-ground.
- + : earth-chassis. • 🖢 : earth-chassis.
- The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by M and repeat the adjustment until the
- specified value is achieved. (Refer to R565 and R566 on page 52~54 in the Service Manual.)
- When replacing the part in below table be sure to parform the related adjustment.

R565 (HOLD-DOWN)
R566 (HOLD-DOWN)
(H

- Readings are taken with a color-bar signal input.
- Readings are taken with a 10  $M\Omega$  digital multimeter. Voltage are dc with respect to ground unless otherwise
- Voltage variations may be noted due to normal production tolerance.
- All voltages are in V.
- : B+ bus.
- ---: B- bus. • signal path.

## Reference information

RESISTOR : RN METAL FILM : RC SOLID

> : FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE NONFLAMMABLEWIREWOUND

NONFLAMMABLE METALOXIDE NONFLAMMABLE CEMENT

ADJUSTMENT RESISTOR

MICRO INDUCTOR

TANTALUM CAPACITOR : TA STYROL POLYPROPYLENE

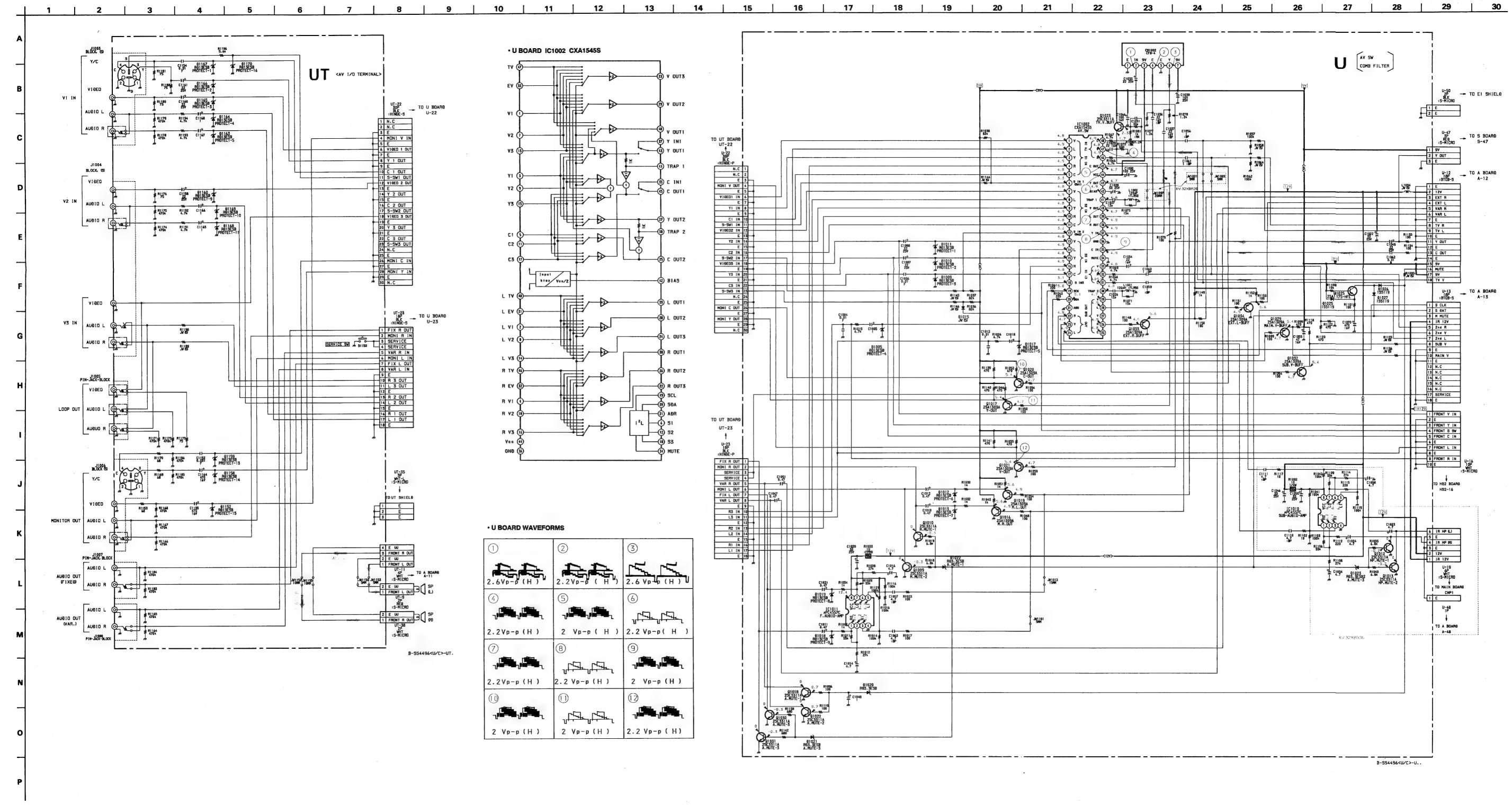
MYLAR METALIZED POLYESTER : MPS

METALIZED POLYPROPYLENE **BIPOLAR** 

: ALB HIGH TEMPERATURE : ALT : ALR HIGH RIPPLE

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

par une marque A sont d'une importance



— **79** —

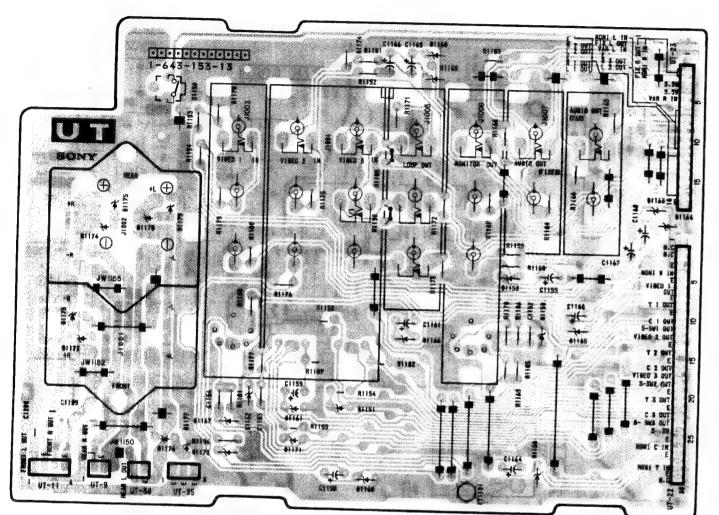
**— 80** —

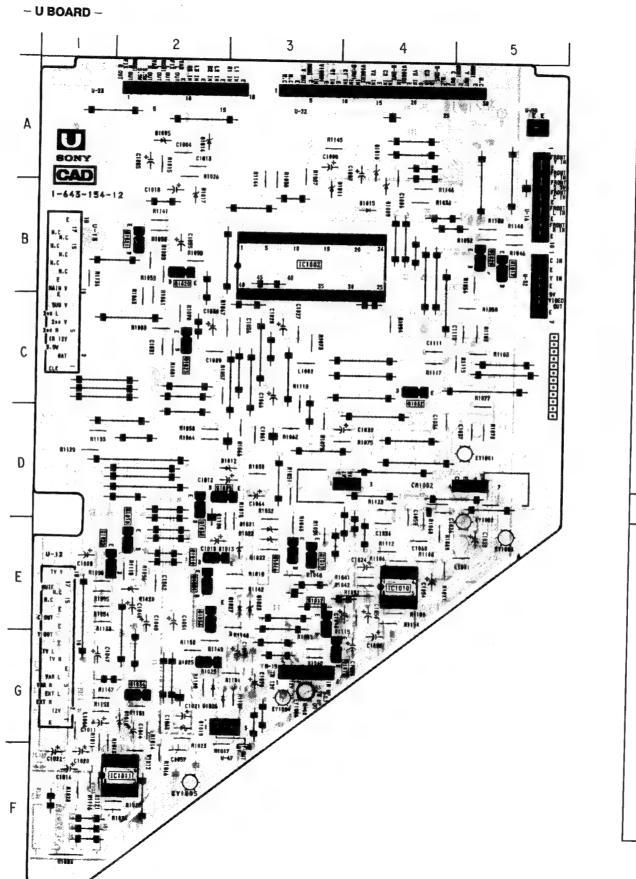
**— 81** —

— **82** —



- UT BOARD -

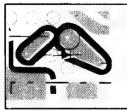




	IC	]
IC1002 IC1010 IC1011	B-3 E-4 F-2	
TRAN	SISTOR	
Q1009 Q1010 Q1012 Q1013 Q1016 Q1017 Q1018 Q1019 Q1020 Q1021 Q1022 Q1023 Q1025 Q1029 Q1030 Q1031 Q1032 Q1033 Q1034	D-2 E-2 G-3 G-4 E-3 B-5 E-3 B-2 E-3 B-1 C-2 B-2 D-2 C-4 E-2 G-2	
DIO	DE	
D1005 D1009 D1010 D1011 D1012 D1013 D1014 D1015 D1017 D1018 D1019 D1020 D1021 D1022 D1023 D1025 D1026 D1027	A - 2 B - 4 A - 4 B - 3 D - 3 E - 3 A - 2 B - 4 B - 2 G - 2 E - 2 E - 3 E - 3 G - 2 E - 3 E - 3 G - 2 E - 3 E - 3 E - 3 E - 3 E - 3 E - 2 E - 2 E - 2 E - 2 E - 3 E - 3	

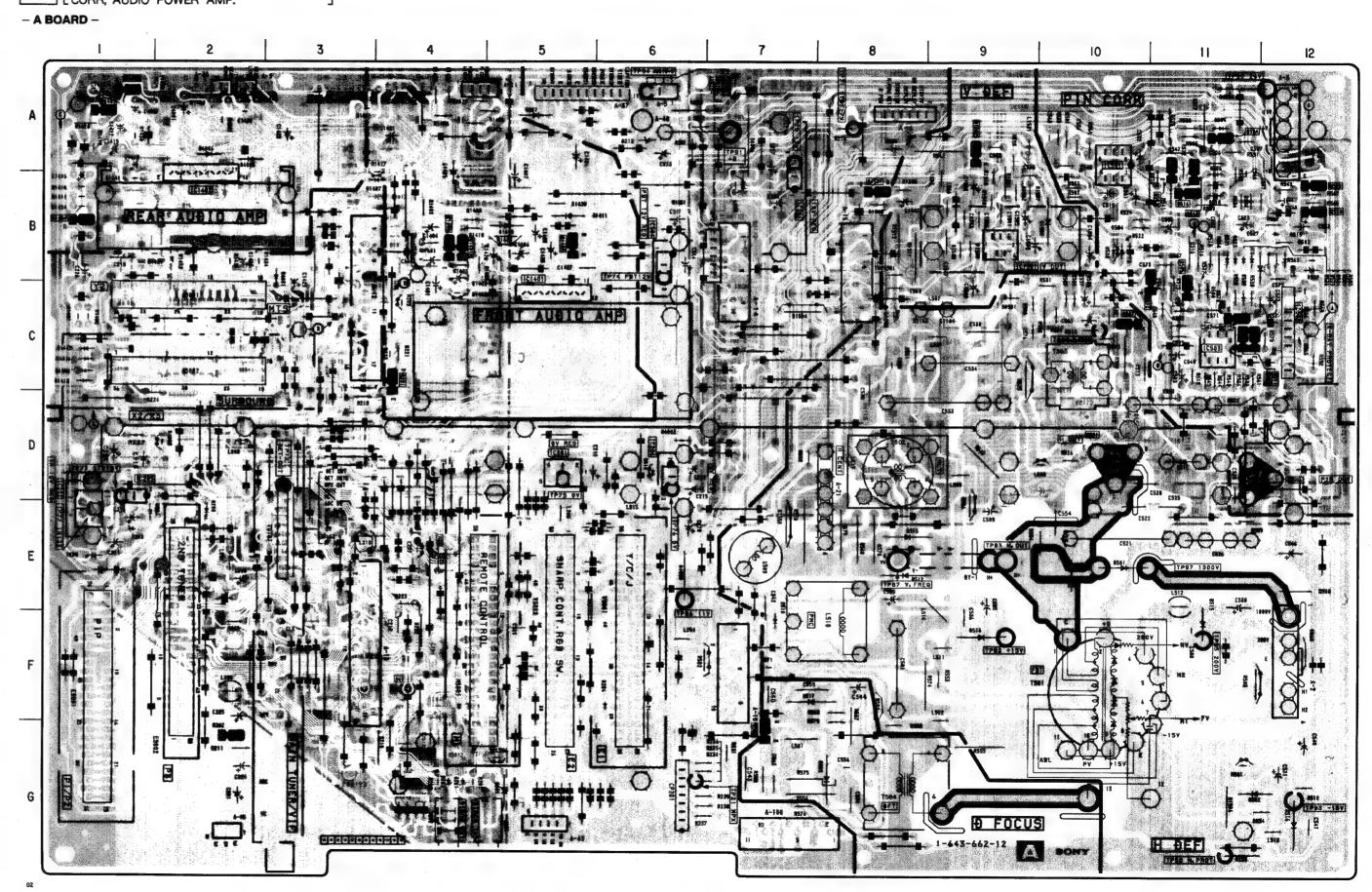
TUNER - VIF/SIF, HIGH VOLTAGE CIRCUIT, H/V DEFLECTION, X - RAYS. PROT, H. PIN CORR, AUDIO POWER AMP.

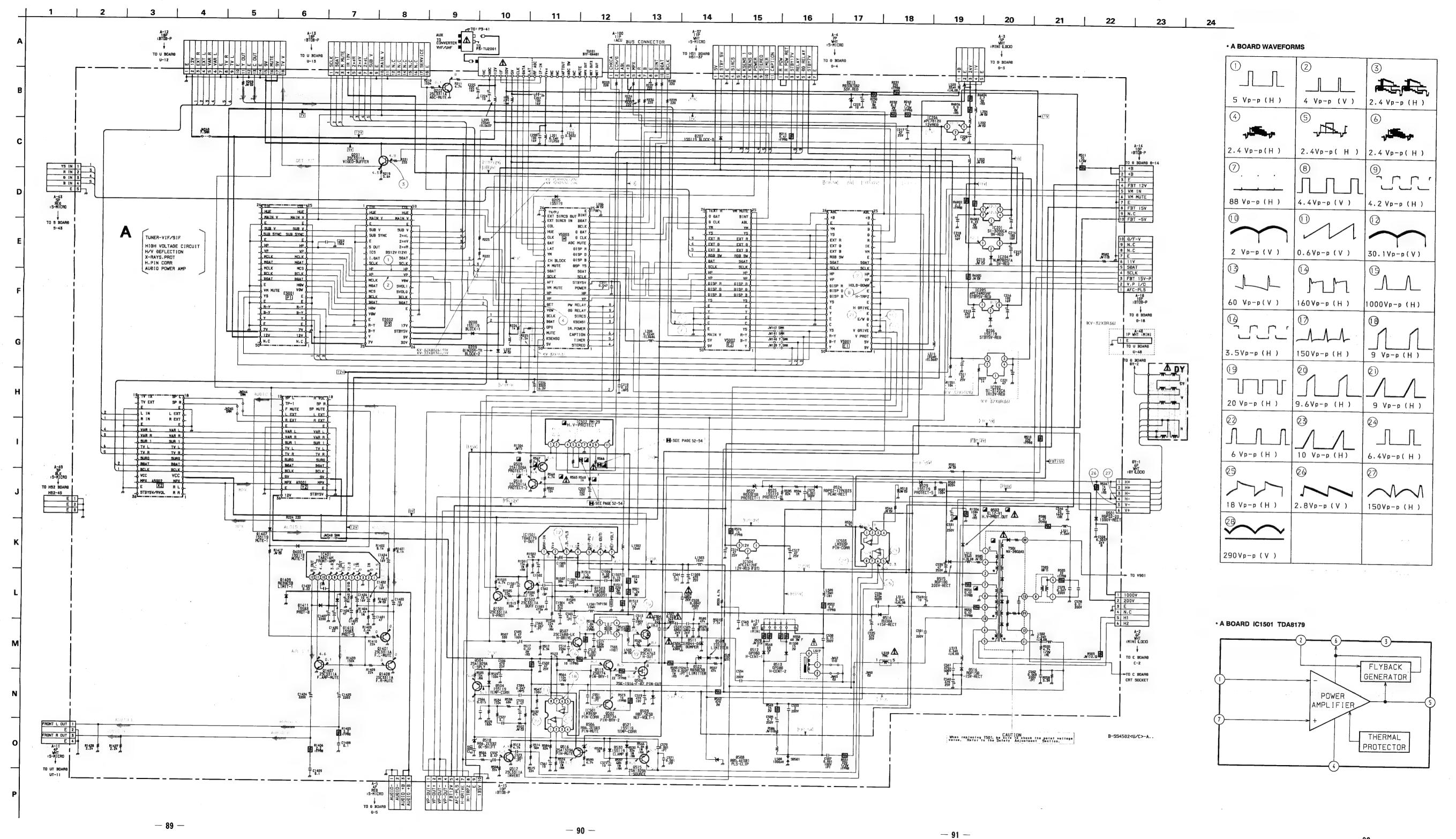
		<u> </u>	
	IC	D207	A-5
IC201	D-5	D208	E – 2
IC202	D-1	D209	E – 1
IC204	D-6	D213	A – 6
IC205	D – 1	D501	E-10
IC206	B-7	D502	G – 11
IC501	A - 10	D503	G-8
IC502	C - 12	D504	A – 11
IC503	C - 11	D506	A – 11
IC504	B-6	D508	C-11
IC1401	C-5	D509	A - B
IC1501	B - 9	D510	F – 7
	SISTOR	D511	D-11
ITAN	313 I UK	D512	E-8
Q201	C - 4	D513	E-8
Q202	G – 2	D514	F-9
Q501	D – 10	D515	F-11
Q502	A – 11	D516 D517	G – 12 F – 7
Q503	G-7	D517	B – 11
Q504	A – 11	D518	B – 11
Q505	B – 11	D521	B – 11
Q506	D - 12	D524	B-10
Q507	Ç – 10	D525	B – 12
Q508	C - 1,1	D523	B – 12
Q509	B – 12	D529	B – 11
Q510	B - 12	D530	B-11
Q511	C - 11	D1407	B-3
Q512	B - 10	D1408	C-1
Q513	A – 11	D1409	A - 4
Q515	C – 11 B – 11	D1410	B-5
Q516 Q1401		D1411	B-5
Q1407	B – 4 B – 5	D1412	C-1
Q1408	B-5 B-4	D1413	C-1
Q1501	B-8	Q1414	C-1
Q1501		D1503	B - 10
	ODE	D4001	B-3
D205	G-5		
D206	E-1		

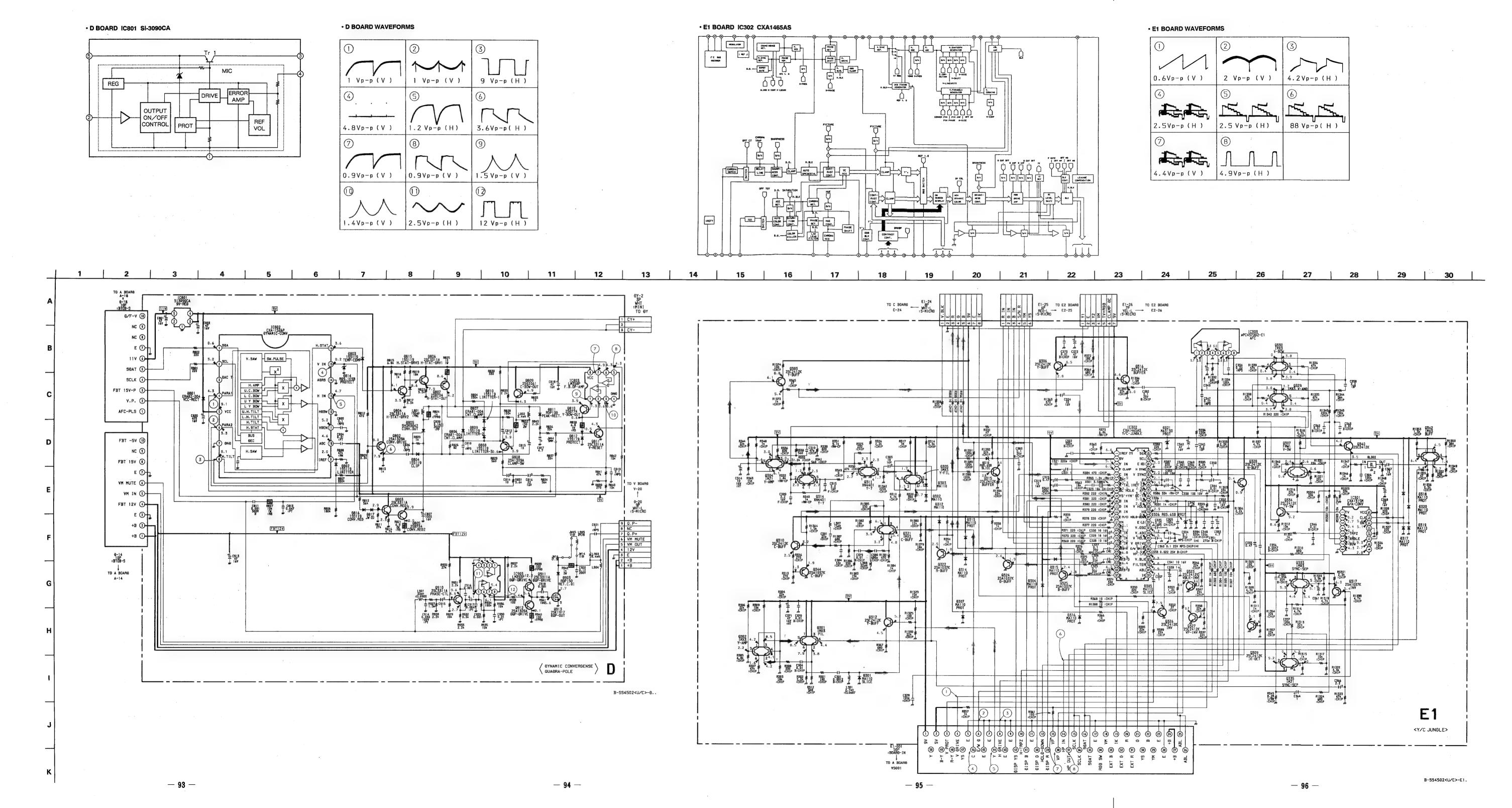


### NOTE:

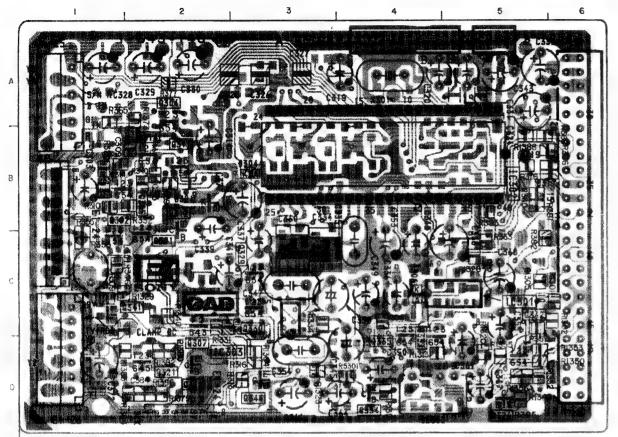
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.







- E1 BOARD -



1,1,1	
***************************************	
F	
6	
-	
H	C328 C339 C330
	OHO

	IC	DIODE		
IC301 IC302 IC303  TRAN  Q301 Q302 Q303 Q304 Q305 Q306 Q307 Q309 Q310 Q311 Q312 Q314 Q315 Q316 Q317 Q321 Q321 Q322 Q323 Q324	C-5 B-4, G-4 C-3  NSISTOR  C-2 C-1 G-1 A-2 B-1 H-3 C-2 F-2 D-2 B-2 B-2 B-2 B-2 B-2 G-5 G-5 E-3 D-2 G-4 F-3 G-3	DIC D301 D302 D303 D304 D305 D306 D307 D310 D312 D313 D314 D315 D316 D317 D318 D319 D320 D321	F-1 G-1 B-3 F-3 C-4 G-4 G-4 G-3 G-3 G-2 G-3 B-5 F-5 B-5 B-5 B-5	
Q325 Q326 Q327 Q328 Q329 Q330 Q333 Q334 Q335 Q340 Q342 Q344	G-3 D-3 F-5 C-3 D-4 D-4 D-4 D-4 D-3			

	– D BOARD –						
	The state of the s	2	3	4	5	6	
Α	8835 Cole	CY   BY-2 CY   BY-2   CY   BY-2   CY   CY   CY   CY   CY   CY   CY   C	C815 C	801 R824	8-20 8-20 8-20 Francis	1 # S CAD	1
TO THE PARTIES AND THE PARTIES	R839 C819 R839	EY807 17805	5800 5800 5800 5812 5812	805 B005 F 942	EY902 EY	903	SONY
The state of the second state of the state o	R803 C81	****	8509 33 R821	1 1994 1 19929 R533	R901 36 1	8906 EY912	TC902
Addition about the control of the co	1 3061 3611 1319 12004	1807 	9 REG 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9905 A991 (2503) 4902	1934 (93) (93) (93) (93) (93) (93) (93) (93)	1998 H925 4998 H925 H926 H926 H926 H926 H926 H926 H926 H926	R920
A copy of the second of the se	movia	11CB02) 16	C028 (003)	C922 B 10902	PAR : 003 - 0040	1957 C911 E C998  1957 C911 E C998  1971 C917 E C998  1971 E C997	R919 324
er i sakke joon	5	51 1 B	9909	6903	R912	9905	0-14

		С	DIC	ODE
	IC802 IC803	D – 2 A – 1	D801 D802	C – 2 C – 1
,	10903	D - 5	D803	C – 2
	TRAN	SISTOR	D804 D805	B – 4 B – 4
	Q802 Q803 Q804 Q805 Q806 Q807	B-3 D-4 C-1 D-3 C-1 C-2	D806 D807 D808 D809 D810 D811	B - 2 B - 2 B - 3 B - 3 B - 3 A - 3 B - 1
	Q808 Q809 Q810 Q811 Q910 Q911 Q912 Q913	B - 2 A - 1 B - 2 B - 1 B - 4 C - 5 C - 5	D812 D813 D814 D815 D816 D903	D - 6 C - 2 C - 1 D - 3 B - 5

: Pattern from the contract consider regime

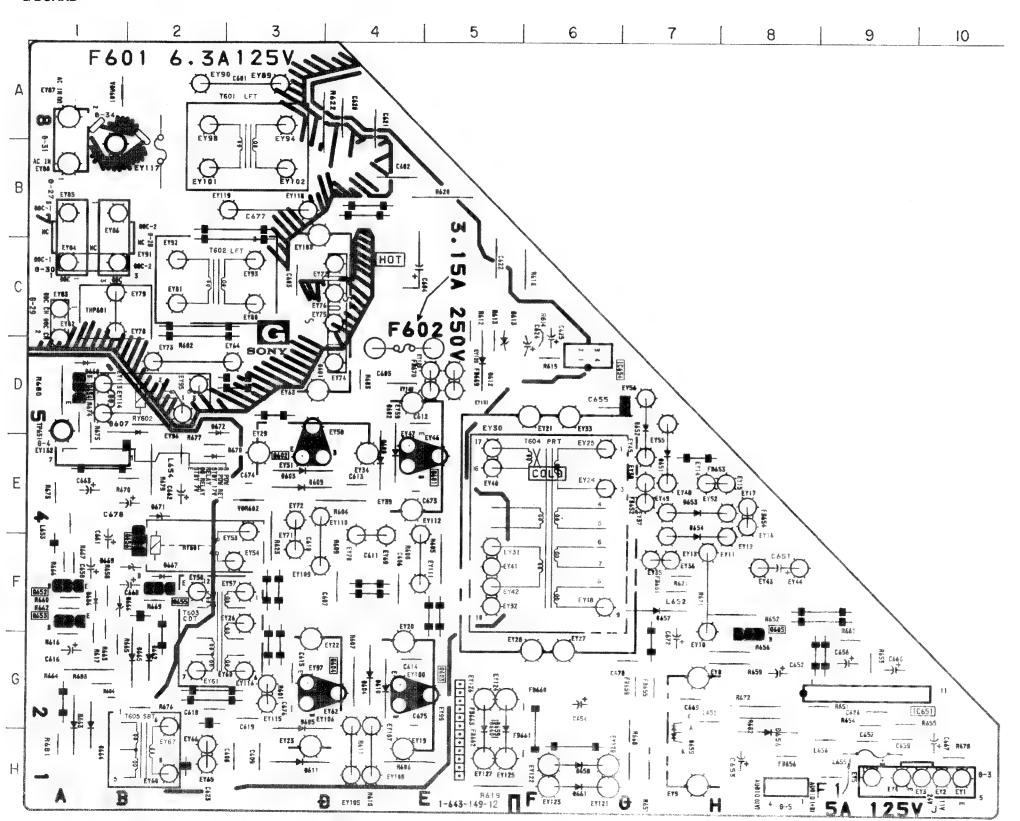
• Pattern of the rear side.

D2317 A - 4

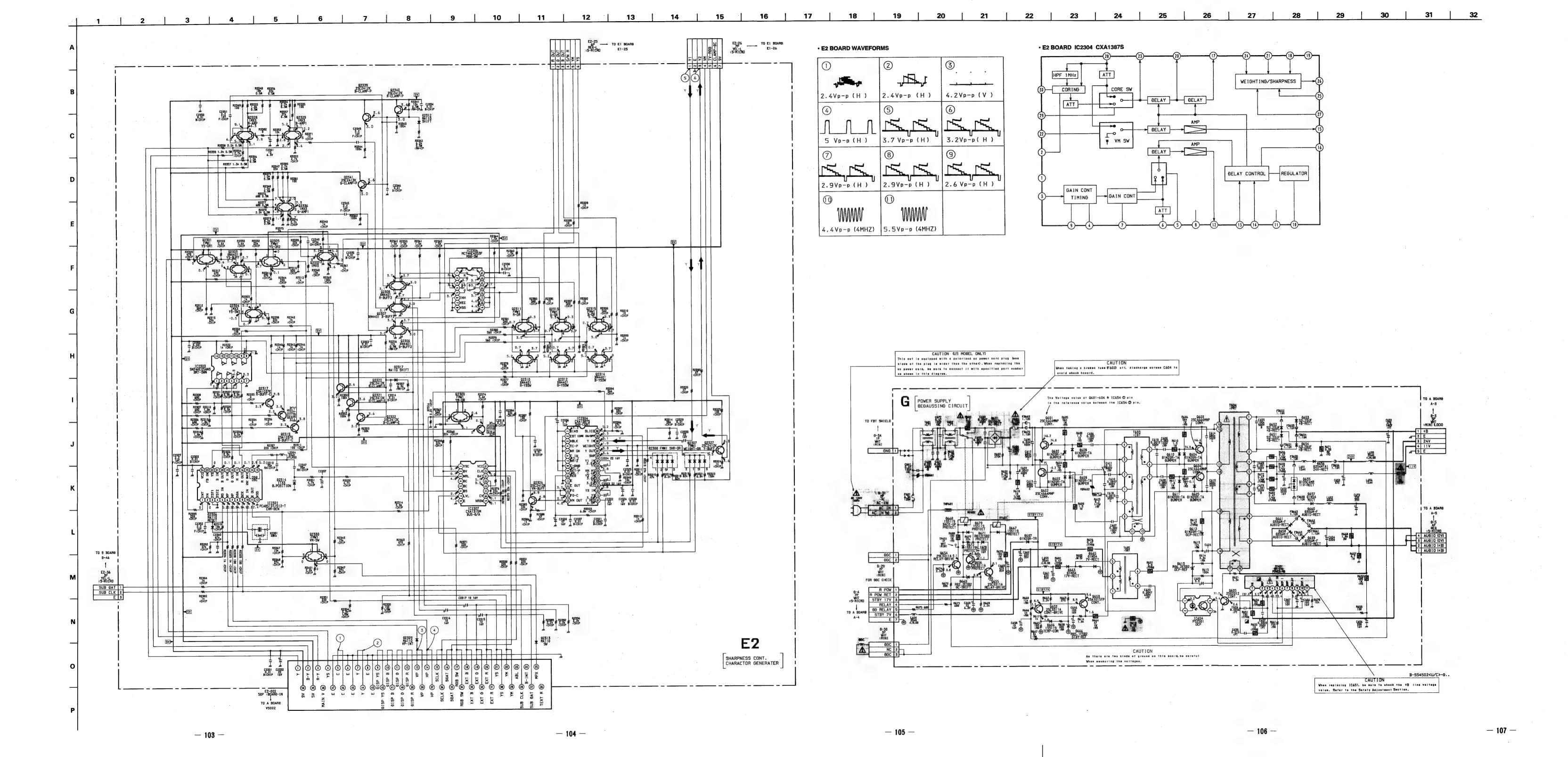


- G BOARD -

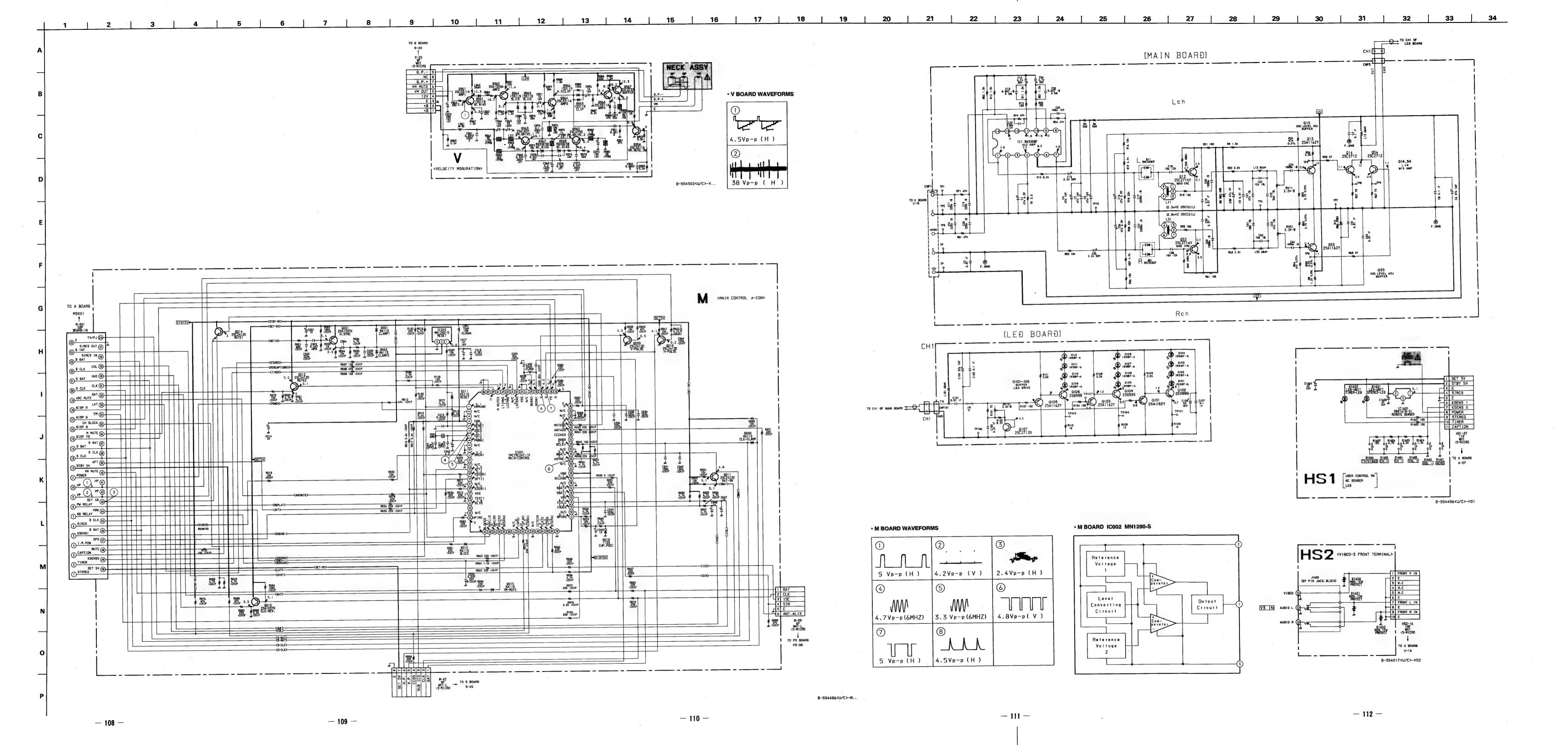
IC		D613	D - 5
IIC651 IC654	G-9 D-6	D651 D652	E - 7 D - 7
		D653 D654	E – 7 F – 7
TRANSISTOR		D655	H - 7
Q601	E-5	D656	H - 8
Q602	E-3	D657	F – 7
Q603	G – 5	D658	H – 6
Q604	G – 4	D659	G – 5
Q605	F – 8 F – 1	D660 D661	G – 5 H – 6
Q652 Q653	F - 1	D663	G – 1
Q654	D – 1	D665	G – 2
Q655	F – 2	D666	F – 1
Q656	F – 2	D667	F - 2
DIODE		D668 D669	D – 1 F – 2
D601	C - 4	D670	E-2
D602	E – 4	D671	E – 2
D603	E - 3	D672	D – 2
D604	G – 4		
D605	G – 3		
D606	F – 1		
D607	D-2		
D608 D609	E – 4 E – 3		
D610	G-4		
D611	H – 3		
D612	D - 5		



- E2 BOARD -• Pattern of the rear side. IC2031 B - 4 IC2303 A - 5IC2304 D - 3, E - 2H – 3 IC2306 IC2307 B - 3TRANSISTOR Q2301 C - 5 Q2303 C - 5 Q2304 D-5Q2305 C - 5 Q2306 A - 3Q2307 B-4Q2308 A - 3Q2309 B - 2 10000000000000 B Q2310 A-2Q2311 A – 2 Q2312 A - 2Q2313 A - 2Q2314 A-2Q2315 A – 2 Q2317 H - 4Q2318 G – 4 Q2319 G - 5 Q2320 A - 4Q2321 A - 4Q2322 A - 4Q2324 B - 3Q2326 E – 1 Q2327 E-2 Q2328 D - 4Q2329 D - 4 Q2330 C-4Q2336 C - 5 Q2337 B - 3 Q2339 F – 4 Q2340 F – 4 Q2341 F-4 DIODE D2306 C-5 D2307 B - 2 D2308 B -- 2 D2309 B-2D2312 C - 4 D2313 C - 4 D2314 B - 5



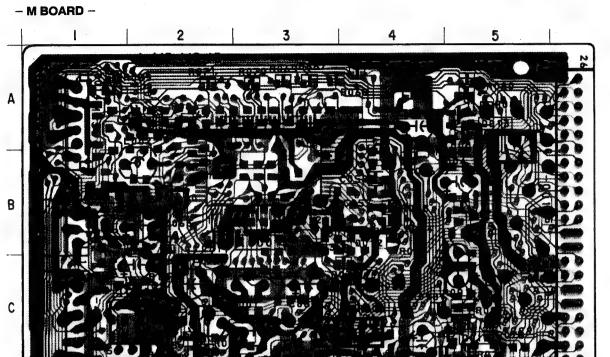




- MAIN BOARD - (KV-32XBR36 ONLY)



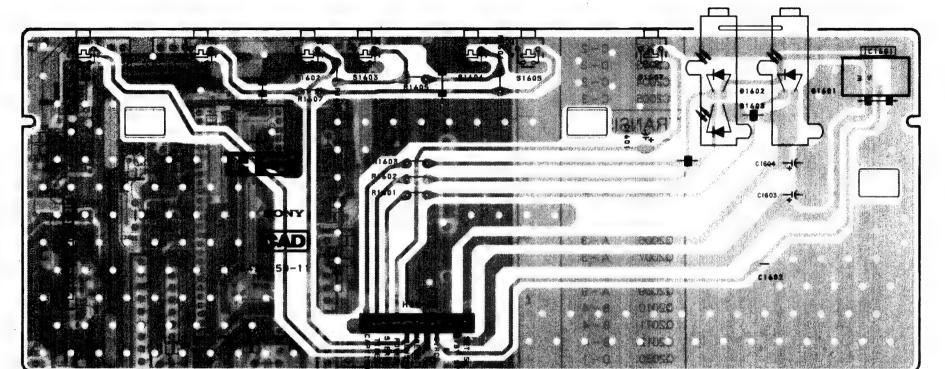
- HS1 BOARD -



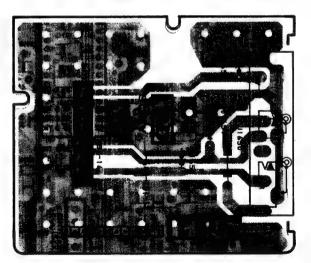
IC			
IC001	C - 1		
10002	D-2, E-2		
TRANSISTOR			
0001	0 5		
Q001	G – 5		
Q009	G – 5 G – 1		

TRANSISTO				
Q001	G – 5			
0009	G – 1			
Q010	H – 1			
Q011	F - 1			
Q012	C - 5			
Q013	A - 5			
Q014	C - 4			
D	IODE			

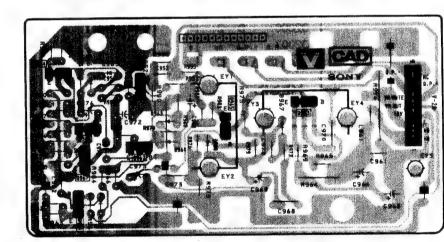
DIODE			
D001	H - 5		
D002	H-5		
D009	F – 1		
D010	A - 4		
D011	D – 2		
D012	B - 4		
D014	A - 1		
D015	B – <b>4</b>		



- V BOARD -



- HS2 BOARD -



- LED BOARD - (KV-32XBR36 ONLY)



: Pattern from the side which enables seeing.
: Pattern of the rear side.

KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

P3 2ND CONT, µ - CON FOR PIP, 2ND TUNER - VIF/SIF FOR PIP, LY/C JUNGLE FOR PIP, ANT SW CONT.

- P3 BOARD - (KV-32XBR36 ONLY)

D1

REJ

PICTURE IN PICTURE
--------------------

10		2	3	4
IC		The second secon		
JC2001 F - 1			* *************************************	
IC2002 C - 2		350000	0000	0 0 0 5 11 0 LIME 0
IC2003 D - 3				
IC2004 C-2	6		and the same of th	
IC2005 C-3		0-0	Part of the last o	
TRANSISTOR				
Q2001 E-1				
Q2002 F-2				L. T. C. T. L. C.
Q2003 E-3	8		The second second	
Q2004 D-3				D1184 0 12 12 12 12 12 12 12 12 12 12 12 12 12
Q2005 B-3		。圖學面。	L L	Please
Q2006 A-3		O-Ita	I Complete Street	
Q2007 A - 3		OH PL TE		
Q2008 E-1	=.0			
Q2009 A - 9		中中	BW O O	E de la Company
Q2010 B-4		tion all a	(人)	
Q2011 B-4		子 10 11 3	10000	
Q2012 B-4		祖二	- 1 - 1 - 1 - 1 · 1 · 1	
Q2030 D - 1		0 0	-0 6 000	UPT
Q2031 F - 1			mil Charles	T. T. T.
Q2036 C - 4				TO ES THE
Q2037 G-3			000	ANNA DELINE
DIODE	H B YE	10-11	1.00 · · · · · · · · · · · · · · · · · ·	ano Ho
D2006 D-2	HH 0 2 = 1		O make of the	Da Line
D2007 D - 1	A E O		T 2 2 1140	T COM
VARIABLE	Tile of the		THE TAKE	二、1000000000000000000000000000000000000
		O Par	DATE TO A	O TRIII
RESISTOR	HAR. SELIE		THE THE PARTY	3 to 12 to 1
RV2001 F - 1				+813 m. 81
	The Till	OH A	1010	
		<b>建</b>		102007
		200	A SEATON	<b>□</b>
			是一班王。山工	
	F			一点 一点
		0	0 = 0	o a margin HVE
			工。其	Heli
	OHE OF	9 10-16-0	T - T	
	The second secon	100	HH BOHO CHI	H : 300 CM
	demographen - Properties - Prop	Ford And	0 1( o	7-4
	G Programme 5			#0 0 #0 0 to
				Without I
		200022000	0000000000	9.000
		360000000	00000000000	
side which enables seeing.				400

IC3001 A - 2, G - 2 IC3002 D – 2 IC3003 B – 2, F – 2 IC3004 D - 4 IC3005 C - 4 IC3006 B - 5, G - 5 IC3007 A - 4, G - 4 IC3008 C - 5, F - 5

## TRANSISTOR C - 3

Q3003 A - 3 Q3004 Q3006 F-4 Q3007 G - 4 Q3008 H - 3 Q3009 G – 4 Q3010 H – 5 Q3011 F - 4 Q3012 F <sup>(2)</sup> 1 Q3013 C - 1 Q3014 F – 4 Q3100 B-4

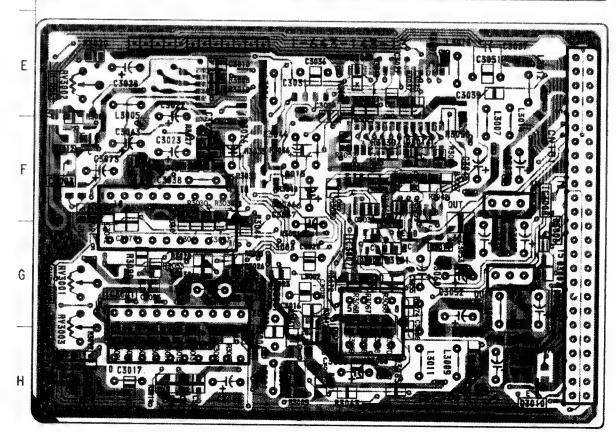
## DIODE

D3003 E – 4 D3004 B - 5 D3009 C-1

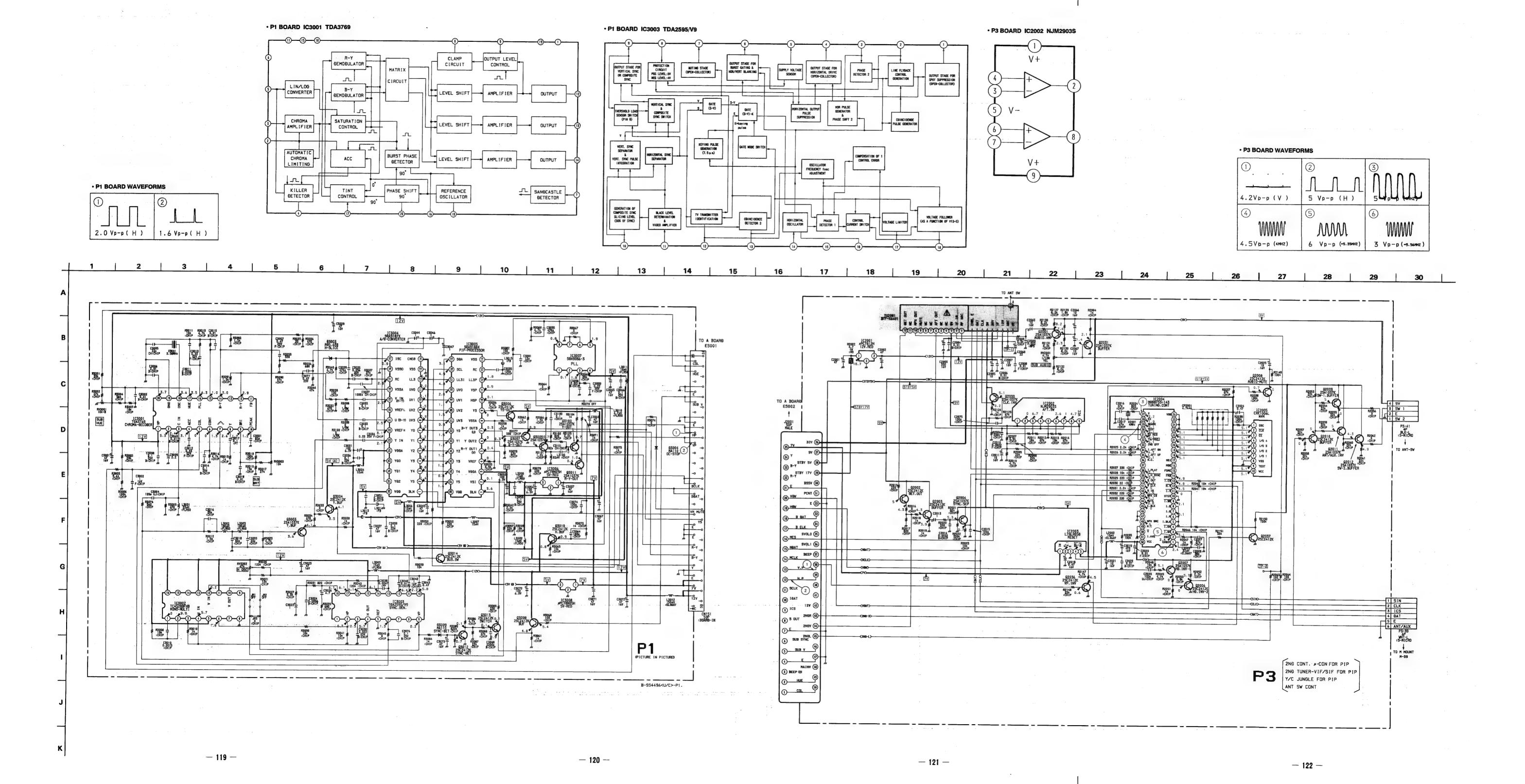
## **VARIABLE** RESISTOR

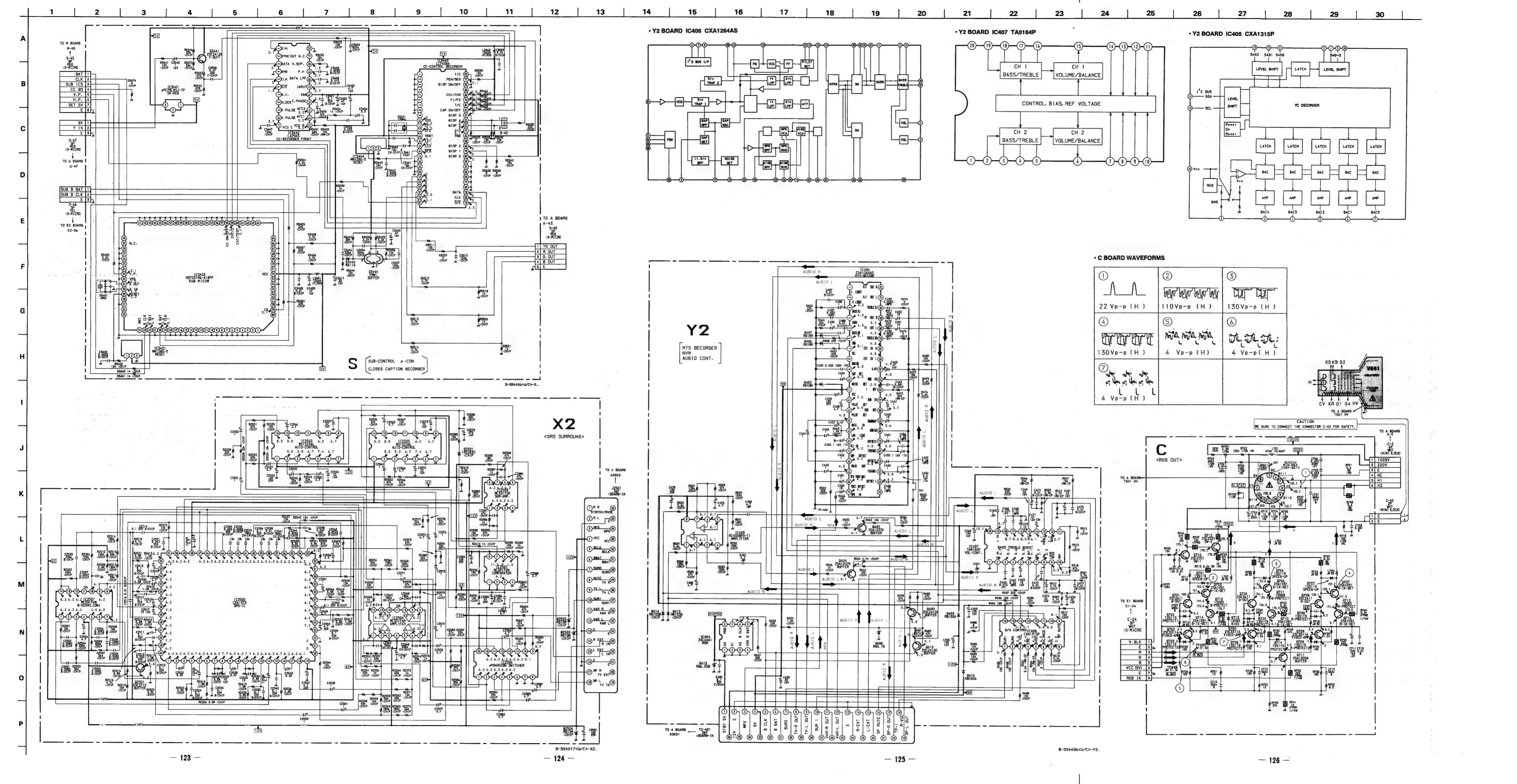
RV3001 B - 1, G -RV3002 D-1, E-1 RV3003 A - 1, G - 1 - P1 BOARD -

: Pattern from the side which enables seeing.



: Pattern from the side which enables seeing.





## KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

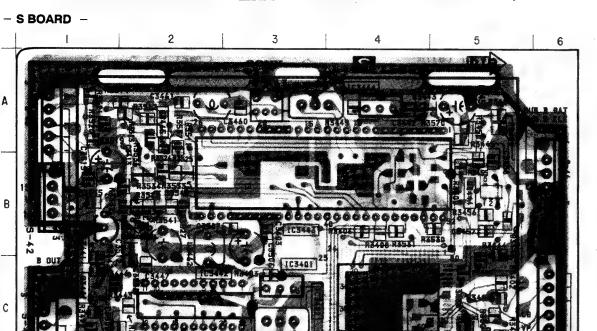
## KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

- X2 BOARD -



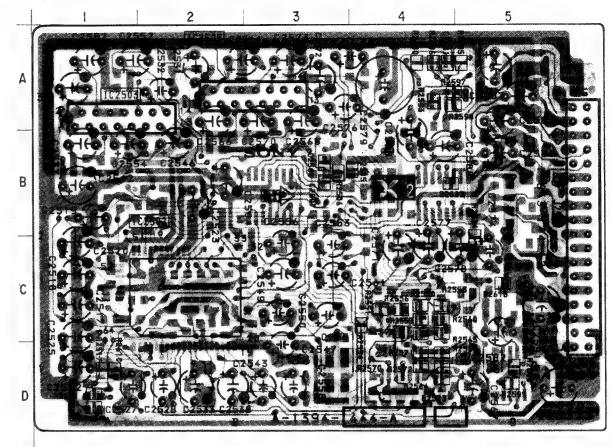
Note

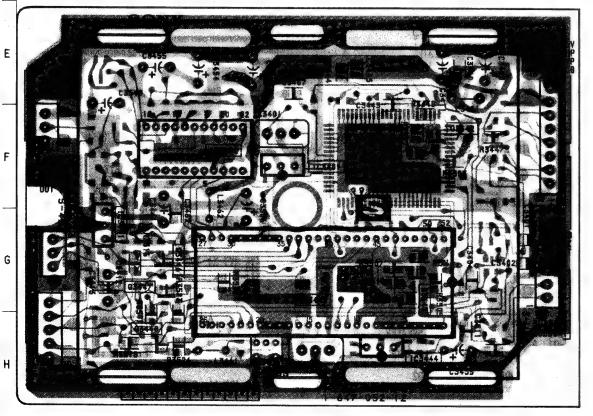
- · : Pattern from the side which enables seeing.
- Pattern of the rear side.



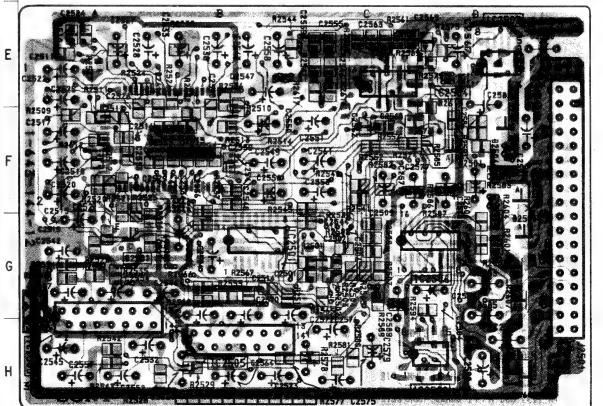
IC				
IC3401 IC3402 IC3441 IC3442 IC3443 IC3444	C-3, F-3 C-4 B-1, G-1 C-2, F-2 B-3, G-3 A-4, H-4			
TRANSISTOR				

TRANSISTOR				
C3441	C - 1			
C3444	B - 5			
DIODE				
D3444	B-5			





	IC	
IC2501		G-3
IC2502	C-2	
IC2503	A – 1	H – 1
IC2504		E-4
IC2505	A - 2	H - 2
IC2506		G - 4
IC2507		E-5
IC2508		H – 4
TRA	NSIST	OR
TRA	ANSIST G-2	OR
Q2501		
Q2501	G-2	
Q2501	G-2	
Q2501 D2501	G-2	F-5

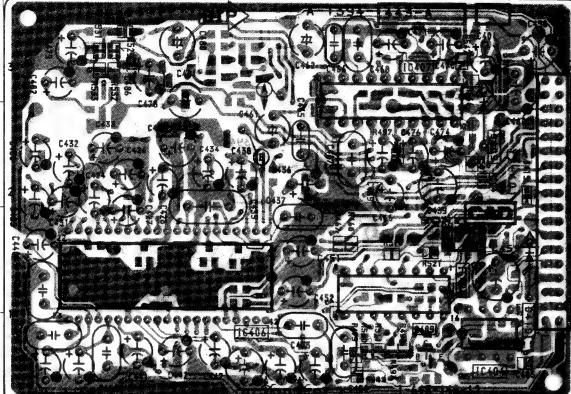


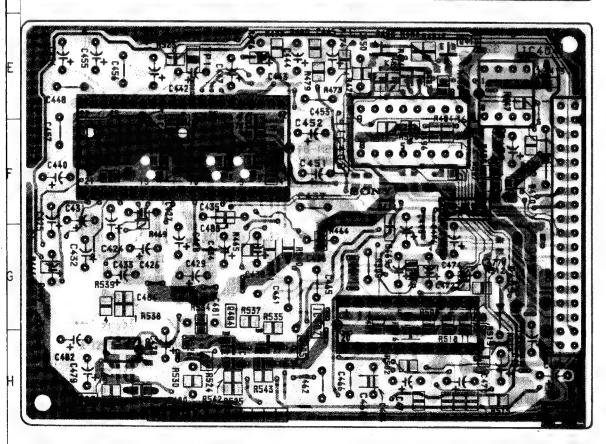
### Note:

- · Pattern from the side which enables seeing.
- Pattern of the rear side.

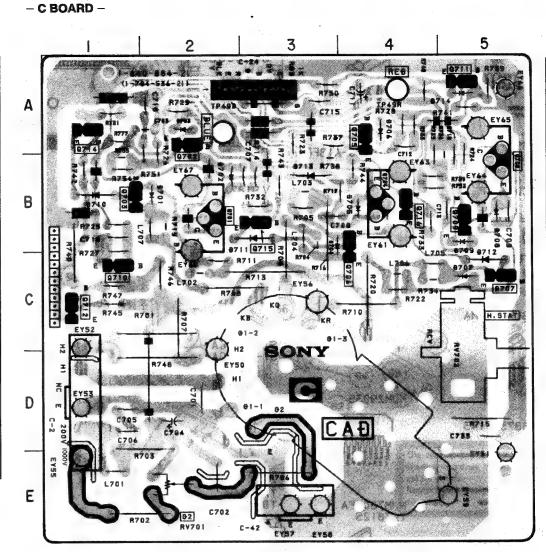


: Pattern from the side which enables seeing. – Y2 BOARD – : Pattern of the rear side.





		IC
	IIC403 IC404 IC406	H-1 D-5, E-5 C-2, F-2
	IC407 IC408	A - 4, G - 4 C - 4, F - 4
	TRAN	NSISTOR
	Q404 Q405	H-3 H-3
	Q409 Q410	D - 5 E - 5
DIOD		IODE
	D405 D406 D407 D408 D409 D410 D413 D141 D415	F-2 F-2 F-3 E-4 A-5 C-5, F-5 E-6 F-4 B-5



- Pattern from the side which enables seeing.
- : Pattern of the rear side.

TRANS	SISTOR
Q701	B - 2
Q702	A – 2
Q703	B – 1
Q704	B – 4
Q705	A-4
Q706	B – 4
Q707	C - 5
Q708	B – 5
Q709	B – 5
Q710	C – 1 , .
Q711	A – 5
Q712	C - 1
Q714	, , , <b>A</b> , – , 1 , , , ,
Q715	B - 3
Q716	B – 4
DIC	DDE
D701	B - 2
D702	B - 2
D703	A - 2
D704	B - 3
D705	B - 4
	A 3 A
D706	A - 4
D706 D707	C – 5
D707 D708	C - 5 B - 5
D707	C - 5

D711

D712

D713

D714

RV701

RV702

B - 3

C-5

:B-3

A - 5

E-2

D-5

**VARIABLE** RESISTOR

RM-Y112A TDR-IF310/RM-Y113A

## SECTION 8 ELECTRICAL PARTS LIST

**P**3

NOTE:

The components identified by shading and mark A are critical for safety.

Replace only with part number a specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

### RESISTORS

- · All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

· MF : μF, PF : μμF

• MMH : κπΗ, UH : μΗ

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

			•	
REF.NO. PART NO.	DESCRIPTION	REMARI	REF.NO. PART NO. DESCRIPTION	REMARK
*A-1195-068-A	P3 BOARD, COMPLETE (KV-3	32XBR36(US/CND)	IC2003 8-759-805-37 IC L78LR05D-MA IC2004 8-759-066-51 IC MB88733-143 IC2005 8-759-803-25 IC CXK1006L	
<caf< td=""><td>PACITOR&gt;</td><td></td><td><jack></jack></td><td></td></caf<>	PACITOR>		<jack></jack>	
C2001 1-124-910-11 C2002 1-124-910-11 C2003 1-124-119-00 C2004 1-164-232-11 C2005 1-124-261-00		20% 50V 20% 50V 20% 16V 10% 50V 20% 50V	J2001 *1-573-962-11 CONNECTOR (MALE) 50P <coil></coil>	
C2006 1-164-232-11 C2007 1-126-157-11 C2008 1-163-031-11 C2009 1-163-157-00 C2010 1-164-161-11	CERANIC CHIP 0.01MF ELECT 10MF CERANIC CHIP 0.01MF FILM 0.022MF CERANIC CHIP 0.0022MF	10% 50V 20% 16V 50V 5% 50V 50V	L2002 1-410-663-31 INDUCTOR 10UH L2003 1-410-667-31 INDUCTOR 22UH	
C2011 1-126-157-11 C2013 1-126-301-11 C2014 1-164-161-11 C2015 1-163-117-00 C2016 1-163-109-00	ELECT 1MF CERAMIC CHIP 0.0022MF	20% 16V 20% 50V 10% 50V 5% 50V 5% 50V	P3-39 *1-564-521-11 PLUG, CONNECTOR 6P P3-41 *1-564-519-11 PLUG, CONNECTOR 4P <transistor></transistor>	
C2017 1-163-109-00 C2018 1-124-465-00 C2019 1-126-103-11 C2020 1-163-031-11 C2021 1-126-157-11	CBRANIC CHIP 47PF BLECT 0.47MF ELECT 470MF CBRANIC CHIP 0.01MF ELECT 10MF	5% 50V 20% 50V 20% 16V 50V 20% 16V	Q2001 8-729-216-22 TRANSISTOR 2SA1162-G Q2002 8-729-422-27 TRANSISTOR 2SD601A-Q Q2003 8-729-422-27 TRANSISTOR 2SD601A-Q Q2004 8-729-216-22 TRANSISTOR 2SA1162-G Q2005 8-729-422-27 TRANSISTOR 2SD601A-Q	
C2022 1-164-232-11 C2023 1-163-119-00 C2024 1-124-465-00 C2025 1-126-157-11 C2027 1-163-103-00	CERAMIC CHIP 120PF ELECT 0.47MF ELECT 10MF	10% 50V 5% 50V 20% 50V 20% 16V 5% 50V	Q2006 8-729-422-27 TRANSISTOR 2SD601A-Q Q2007 8-729-216-22 TRANSISTOR 2SA1162-G Q2008 8-729-901-81 TRANSISTOR 2SC2412K-T-146-R Q2009 8-729-216-22 TRANSISTOR 2SA1162-G Q2010 8-729-422-27 TRANSISTOR 2SD601A-Q	
C2028 1-163-107-00 C2064 1-164-161-11 C2065 1-126-320-11 C2066 1-126-157-11 C2067 1-126-157-11	CERAMIC CHIP 0.0022MF	5% 50V 10% 50V 20% 16V 20% 16V 20% 16V	Q2011 8-729-216-22 TRANSISTOR 2SA1162-G Q2012 8-729-216-22 TRANSISTOR 2SA1162-G Q2030 8-729-216-22 TRANSISTOR 2SA1162-G Q2031 8-729-216-22 TRANSISTOR 2SA1162-G Q2036 8-729-422-27 TRANSISTOR 2SD601A-Q	
C2068 1-124-916-11 C2075 1-163-117-00	ELECT 22MF CERAMIC CHIP 100PF	20% 50V 5% 50V	Q2037 8-729-422-27 TRANSISTOR 2SD601A-Q	
<rn< td=""><td>POSITION CIRCUIT BLOCK&gt;</td><td></td><td><resistor></resistor></td><td></td></rn<>	POSITION CIRCUIT BLOCK>		<resistor></resistor>	
	NETWORK, RES, THICK FILM		R2002 1-216-357-00 METAL OXIDE 4.7 5% 1W R2003 1-216-061-00 METAL GLAZE 3.3K 5% 1/3 R2004 1-216-049-00 METAL GLAZE 1K 5% 1/3 R2006 1-216-689-11 METAL GLAZE 39K 5% 1/3 R2007 1-216-063-00 METAL GLAZE 3.9K 5% 1/3	LOW LOW LOW
D2006 8-719-105-45 D2007 8-719-911-19	DIODE 188119		R2008 1-216-081-00 METAL GLAZE 22K 5% 1/3 R2009 1-216-081-00 METAL GLAZE 22K 5% 1/3 R2010 1-216-065-00 METAL GLAZE 4.7K 5% 1/3 R2011 1-216-079-00 METAL GLAZE 18K 5% 1/3 R2012 1-216-089-00 METAL GLAZE 47K 5% 1/3	LOW LOW LOW
IC2001 8-759-231-58 IC2002 8-759-700-48	IC TA7812S IC NJM2903S		R2013 1-216-079-00 METAL GLAZE 18K 5% 1/ R2014 1-216-089-00 METAL GLAZE 47K 5% 1/	low low

## KV-32XBR26/32XBR36

RM-Y112A TDR-IF310/RM-Y113A



DESCRIPTION REMARK REF. NO. PART NO. METAL GLAZE METAL GLAZE 220 0 R2015 1-216-033-00 1/10W 5% 5% 5% 5% 5% 1/10W 1/10W 1-216-295-00 1-216-047-00 1-216-049-00 R2016 820 R2017 METAL GLAZE R2018 METAL GLAZE 1 K 1/10W R2019 1-216-049-00 METAL GLAZE 1 K 1/10W 5% 5% 5% 5% 5% 1/10% R2020 1-216-037-00 1-216-095-00 1-216-109-00 1-216-073-00 1-216-047-00 R2021 R2022 1/10W 1/10W METAL GLAZE 82K METAL GLAZE 330K R2023 METAL GLAZE 10K 1/10W R2024 METAL GLAZE 820 1/10W 1-216-057-00 1-216-057-00 1-216-033-00 1-216-073-00 R2025 2.2K 2.2K 220 1/10W METAL GLAZE 5% 5% 5% 5% 5% R2026 METAL GLAZE 1/10 METAL GLAZE METAL GLAZE 1/10W R2027 10K 1/10W R2028 1/10W 1-216-033-00 METAL GLAZE R2029 22 2.2K 220 1-216-009-00 1-216-057-00 R2030 5% 5% 5% 5% 5% 1/10W METAL GLAZE METAL GLAZE 1/10W R2031 METAL GLAZE 1/10W R2032 1-216-033-00 1-216-033-00 R2033 METAL GLAZE 220 1/10W R2037 1-216-065-00 METAL GLAZE 1/10W 1/10W R2038 1-216-025-00 METAL GLAZE 5% 5% 5% 5% 5% 1-216-023-00 1-216-097-00 1-216-073-00 1-216-073-00 1-216-073-00 METAL GLAZE METAL GLAZE 100K R2039 1/10W R2040 10K 1/10₩ 10K 1/10W R2041 METAL GLAZE METAL GLAZE 10K 1/10W R2046 R2047 METAL GLAZE 1/10W 1-216-049-00 5% 5% 5% 5% 5% 5% 5% R2048 1-216-073-00 METAL GLAZE 10K 1/10W 1-216-065-00 1-216-063-00 4.7K 3.9K R2049 METAL GLAZE 1/10W R2050 METAL GLAZE 1/10W 1-216-049-00 METAL GLAZE 1/10W R2051 1-216-057-00 1-216-081-00 2.2K 22K 22K 22K 22K R2052 5% 5% 5% 5% 5% 1/10W METAL GLAZE R2053 R2054 1/10W 1/10W 1/10W METAL GLAZE 1-216-081-00 1-216-081-00 METAL GLAZE R2055 METAL GLAZE 1/10W R2056 1-216-295-00 METAL GLAZE 22K 22K 22K 22K 22K 22K 1/10W 1/10W METAL GLAZE R2057 1-216-081-00 5% 5% 5% 5% 5% 1-216-081-00 METAL GLAZE R2058 1-216-081-00 R2059 METAL GLAZE 1/10W 1-216-081-00 1-216-081-00 R2060 METAL GLAZE 1/10W R2061 METAL GLAZE 1/10W 1-216-295-00 1-216-025-00 1-216-025-00 1/10W 1/10W 1/10W R2062 5% 5% 5% 5% 5% METAL GLAZE 100 R2063 METAL GLAZE R2064 100 1-216-097-00 1-216-049-00 1/10W 1/10W R2093 METAL GLAZE 100K METAL GLAZE R2124 R2125 1-216-089-00 METAL GLAZE 1/10W 5% 5% 5% 5% 5% 8.2K 6.8K METAL GLAZE METAL GLAZE 1/10W 1/10W R2127 1-216-071-00 1-216-069-00 R2128 1-216-055-00 1-216-067-00 1.8K R2129 METAL GLAZE 1/10W R2130 METAL GLAZE 5.6K 1/10W 5.6K R2131 1-216-067-00 METAL GLAZE 1/10W 0.50% 1/10W 1-216-676-11 R2132 METAL CHIP 11K 1-216-065-00 1-216-081-00 5% 5% 5% 4.7K R2147 METAL GLAZE 1/10WMETAL GLAZE 1/10W R2149 1-216-097-00 METAL GLAZE 100K 1/10W R2150 1-216-097-00 5% 5% 100K 1/10W METAL GLAZE R2151 1-216-085-00 METAL GLAZE 33K 1/10W <VARIABLE RESISTOR>

RV2001 1-238-015-11 RES, ADJ, CARBON 4.7K

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

2KV

0.0047MF

REF.NO.	PART NO.	DESCRIPTION			REMARK	
<tuner></tuner>						
TU2001A1-693-102-22 TUNER (BTF-XA401)						
<crystal></crystal>						
X2001 1-567-192-11 OSCILLATOR, CERAMIC 4MHZ						
*****	************** *A-1297-137~A					
	*A-1297-138-A	A BOARD, COM	***** PLETE (KV-32			
	4-382-854-11	**************************************		1		
			,, 1, 5# (-,			
4.2		NECTOR> PIN, CONNECT	OD /DC DOAD	) (P		
A-3	*1-573-964-11 *1-573-986-11 *1-564-510-11	PIN, CONNECT PLUG, CONNEC	OR (PC BOAR) TOR 7P	) 5P		
	*1-564-507-11 *1-564-507-11	PLUG, CONNEC PLUG, CONNEC		·		
A-12 A-13	1-573-297-21 1-573-297-21	CONNECTOR, B CONNECTOR, B CONNECTOR, B	OARD TO BOAL	RD 18P RD 18P		
A-14 A-15 A-18	1-573-296-21 1-573-296-21 1-573-296-21	CONNECTOR, B CONNECTOR, B CONNECTOR, B	OARD TO BOAL	RD 10P		
A-21	*1-508-768-00	PIN. CONNECT	OR (5MM PIT			
A-43 A-48	*1-564-514-11 *1-564-508-11 1-508-784-00	PLUG, CONNEC PLUG, CONNEC PIN, CONNECT	TOR 5P	CH) 1P		
A-49	*1-564-506-11	PLUG, CONNEC	TOR 3P			
DY-1	1-573-979-21 *1-580-798-11 *1-573-960-11	CONNECTOR, B CONNECTOR PI CONNECTOR (F	N (DY) 6P	KU 11P		
	<cap< th=""><th>ACITOR&gt;</th><th></th><th></th><th></th></cap<>	ACITOR>				
C202	1-126-101-11 1-102-108-00	CERAMIC	100NF 150PF 0.0022NF	20% 10% 10%	16V 50V 50V	
C210 C211 C213	1-102-121-00 1-101-006-00 1-126-103-11	CERAMIC	0.047MF 470MF	20%	50V 16V	
C214 C215	1-126-101-11 1-124-910-11	ELECT ELECT	100MF 47MF	20% 20%	16V 50V	
C216 C217	1-126-101-11 1-124-126-00	ELECT ELECT	100MF 47MF	20% 20%	16Y 25Y	
C218	1-126-103-11 1-136-169-00	ELECT FILM	470MF 0.22MF	20% 5%	16V 50V	
C220 C221	1-124-910-11 1-124-910-11	ELECT ELECT	47MF 47MF	20% 20%	50V 50V	
C223	1-123-875-11	ELECT	10MF	2XBR36(U 20%	50V	
C224 C225	1-124-261-00 1-124-120-11	ELECT ELECT	10MF 220MF	20% 20% 20%	50Y 16Y 6.3V	
C226 C299 C501	1-124-621-11 1-126-101-11 1-137-116-11	ELECT ELECT FILM	3300MF 100MF 1MF	20% 20% 5%	16V 200V	
C502 C504	1-130-728-00 1-136-161-00	FILM FILM	0.0022MF 0.047MF	5% 5%	50V 50V	
C505 C506	1-124-790-11 1-124-480-11	ELECT ELECT	0.47MF 470MF	5% 20% 20%	100V 25V	

C508

1-162-114-00 CERAMIC

The components identified by shading and mark are critical for safety.

Replace only with part number

specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO. PART NO.	DESCRIPTION	N -		REMARK	REF. NO.	PART NO.	DESCRIPTI	ON		REMARK
C509 1-123-946-00 C510 1-102-110-00 C511 1-124-477-11 C512 1-162-318-11 C513 1-106-391-12				250V 50V 25V 500V 200V	1	1-124-916-11 1-126-301-11 1-102-114-00 1-124-480-11 1-124-911-11 1-136-171-00				50V 50V 50V 25V 50V
C514 1-124-477-11 C515 1-162-117-00 C517 1-124-477-11 C519 1-124-472-11 C520 1-162-116-91	CERAMIC	OSUPA		443-56.34	C1507 C1508 C1509	1-136-171-00 1-106-224-00 1-124-480-11 1-124-122-11			10% 20% 20%	50V 100V 25V 50V
C521 <b>A</b> 1=137=606=21 C522 1=162=116=00 C523 1=124=465=00	EERANIC ELECT	0.023NF 680PF	10%	EAU	Î	<010	DE>			
C523 1-124-465-00 C524 1-130-487-00 C525 1-162-116-00	MYLAR CERANIC	0.022MF 680PF	20% 5% 10%	50V 2KV	D205	8-719-911-19 8-719-911-19	DIODE 1881 DIODE 1881	19 19		
C526 A 1 136 895 51 C527 1-130-495-00	FILM MYLAR	0.068MF 0.1MF	5%	630V 50V		8-719-911-19 8-719-911-19 8-719-510-48	DIODE 1SS1	.19		
C528 1-106-359-00 C531 1-124-634-11 C532 1-124-477-11	ELECT	IMF	10% 20% 20%	200V 250V 25V	D213 D501	8-719-110-78 8-719-018-82	DIODE RD33	ES-B2 2-20EL-6394		
C533 1-137-119-11 C534 1-137-116-11	FILM FILM	47MF 2MF 1MF 470MF 470PF 0.001MF	5% 5%	200V 200V	D502 A D504 D506	8-719-302-44 8-719-911-19	DIODE EL1Z DIODE 1881	-V1 19		
C535 1-124-480-11 C536 1-102-228-00 C537 1-106-343-00	ELECT CERANIC MYLAR	470MF 470PF 0 001MF	20% 10%	25V 500V 100V	D508	8-719-109-88	DIODE RDS.	6ES-B1		
C538 1-106-395-00 C539 1-123-950-00	MYLAR	0.15MF	10%	200V 250V	D512	8-719-110-03 8-719-300-33 8-719-908-03 8-719-908-03	DIODE RU-3 DIODE GPO8 DIODE GPO8	.D		
C540 1-124-480-11 C541 1-102-228-00	ELECT	470MF 470PF	20%	25V 500V	1	8-719-312-72 8-719-936-84	•	A		
	ELECT	33MF	10%	200V 160V	D516 D518	8-719-979-85 8-719-109-93	DIODE EGP2 DIODE RD6.	OG 2ES-B2		
C546 1-123-024-21 C549 1-124-261-00 C551 1-130-471-00 C552 1-126-176-11 C554 1-161-731-51	ELECT MYLAR ELECT	33MF 10MF 0.001MF 220MF 0.001MF	20% 5% 20%	50V 50V 10V	D521 D522	8-719-911-19 8-719-110-72	DIODE 1881 DIODE RD30			
3 347 1 22	CRHAMIC . A	0.001 <b>8F</b>	104	10V 2KV % ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	D524 D525 D527	8-719-976-64 8-719-911-19 8-719-110-78	DIODE RGPO DIODE 1SS1 DIODE RD33	2-17 19		
C557 1-124-465-00 C561 1-124-261-00 C562 1-124-499-11 C563 1-130-491-00	ELECT ELECT MYLAR	0.47MF 10MF 1MF 0.047MF 0.1MF	20% 20%							
C564 1-130-495-00				50V	D530 D1407	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-110-90 8-719-901-83	DIODE 1551 DIODE 1551	19 19 19		
C565 1-130-495-00 C566 1-130-485-00 C569 1-136-167-00		0.1MF 0.015MF 0.15MF	5%	DUY	i					
C570 1-130-471-00 C571 1-130-471-00	MYLAR FILM	0.001MF 0.001MF	5% 2%	50V 50V	D1411 D1503 D4001	8-719-908-03	DIODE 1888 DIODE GPO8 DIODE 1881	D		
C572 1-124-907-11 C573 1-130-471-00 C575 1-102-038-00 C578 1-106-367-00	ELECT MYLAR CERAMIC	10MF 0.001MF 0.001MF	20% 5%	50V 50V 500V		<1C>				
C578 1-106-367-00 C579 1-106-383-00	MYLAR MYLAR	0.01MF 0.047MF	10%	200V 200V	IC201 IC202	8-749-920-58 8-749-921-99	IC SI-3090	CA CA (KV-32XBR)	SE (112 /CM	ווח
C1401 1-124-910-11 C1402 1-126-157-11 C1403 1-126-157-11	ELECT ELECT ELECT	47MF 10MF 10MF	20% 20%	50V 16V	IC204 IC205	8-759-701-75 8-759-144-84	IC NJM7805 IC UPC24M0	FA 5HF	)( (03) CR	υ) )
C1405 1-126-157-11 C1405 1-124-910-11	ELECT ELECT	10MF 10MF 47MF	20% 20% 20%	16 <b>V</b> 16 <b>V</b> 50V	IC206	8-759-231-58 8-759-987-16	IC TA7812S			
C1406 1-124-910-11 C1407 1-124-607-11	ELECT ELECT	47MF 2200MF	20% 20% 5%	50V 50V	I C502 I C503 I C504	1-809-726-11 8-759-987-16 8-759-231-58	IC LM393P IC TA7812S		,	
C1408 1-136-165-00 C1409 1-136-165-00 C1424 1-124-607-11	FILM FILM ELECT	0.1MF 0.1MF 2200MF	5% 5% 20%	50V 50V 50V		8-759-246-70 8-759-506-46	IC TA8216H IC TDA8179			
C1425 1-124-607-11 C1426 1-126-157-11	ELECT ELECT	2200MF 10MF	20% 20%	50V 16V	1 1 6 1 1	<c01< td=""><td>L&gt;</td><td></td><td></td><td></td></c01<>	L>			
C1435 1-124-916-11 C1437 1-130-499-00	ELECT MYLAR	22MF 0.22MF	20% 5%	50Y	L201	1-408-408-00		8.2UH		

RM-Y112A TDR-IF310/RM-Y113A



•The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie, The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
L205 1-408-421-00 L208 1-410-785-31 L210 1-408-408-00	INDUCTOR 100UH INDUCTOR 0.22UH INDUCTOR 8.2UH INDUCTOR 2.2MMH		R234 R235 R236	1-249-409-11 1-249-409-11 1-249-409-11	CARBON CARBON CARBON	220 220 220	5% 5% 5%	1/4W 1/4W 1/4W	
L508 1-421-541-00 L509 1-459-104-00 L510 A 1-460-197-11 L511 1-412-519-11	DESCRIPTION  INDUCTOR 100UH INDUCTOR 0.22UH INDUCTOR 8.2UH INDUCTOR 2.2MMH COIL, CHOKE 1000UH  COIL, WITH CORE 10MMH COIL, FERRITE (PMC) INDUCTOR 33UH INDUCTOR 3.3UH INDUCTOR 100UH	79870	R237 R238 R239 R240 R501	1-249-409-11 1-249-409-11 1-249-409-11 1-249-482-11 1-215-442-00	CARBON CARBON CARBON CARBON METAL	220 220 220 4.7 7.5K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/2W 1/4W	F
L512 1-412-531-31 L513 1-412-519-11 L515 1-410-645-31 L517 A 1-459-973-21 L520 1-412-531-31	INDUCTOR 33UH INDUCTOR 3.3UH  INDUCTOR 100UH COIL, HORIZONTAL LINEARITY INDUCTOR 33UH COIL INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 10UH		R504 R505 R506 R507 R508	1-215-869-11 1-215-449-00 1-249-423-11 1-249-411-11 1-249-435-11	METAL OXIDE METAL CARBON CARBON CARBON	1K 15K 3.3K 330 33K	5% 1% 5% 5%	1W 1/4W 1/4W 1/4W 1/4W	F
L521 1-459-148-00 L1501 1-412-525-21 L1502 1-412-525-21 L1503 1-412-525-21	INDUCTOR 10UH INDUCTOR 10UH INDUCTOR 10UH		R509 R510 R511 R512 R513	1-249-441-11 1-249-409-11 71-249-397-11 1-249-423-11 1-249-425-11	CARBON CARBON CARBON CARBON CARBON	100K 220 22 3.3K 4.7K	555555	1/4W 1/4W 1/4W 1/4W 1/4W	F F
<pre></pre>	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC4763 (LBSONY) TRANSISTOR 2SB734-34 TRANSISTOR 2SA1175-HFE  TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2688-LK TRANSISTOR 2SC2688-LK TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE		R514 R515 R517 R519 R520	1-249-438-11 1-249-433-11 1-216-361-00 1-247-755-11 1-249-441-11	CARBON CARBON METAL OXIDE CARBON CARBON	56K 22K 0.22 1.8K 100K	55555555555555555555555555555555555555	1/4W 1/4W 2W 1/2W 1/4W	F F
Q502 8-729-140-97 Q504 8-729-119-76 Q506 8-729-011-00 Q507 8-729-119-80 Q509 8-729-119-76	TRANSISTOR 2SA1175-HFE  TRANSISTOR 2SK1916-53-F87 TRANSISTOR 2SC2688-LK TRANSISTOR 2SA1175-HFE		R521 R522 R523 R524 R526		METAL OXIDE METAL OXIDE CARBON METAL CARBON			3W 3W 1/4W 1/4W 1/4W	<b>4</b>
9510 8-729-119-78 9512 8-729-119-78 9513 8-729-119-76 9516 8-729-119-76	TRANSISTOR 2SC2785-HFE  TRANSISTOR 2SC2785-HFE  TRANSISTOR 2SD774-34 TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE		R528 R529 R530 R532 R533		CARBON CARBON MET AL CARBON CARBON			1/4W 1/4W 1/4W 1/4W 1/4W	
01407 8-729-119-78 01408 8-729-119-78 01501 8-729-119-78 01502 8-729-119-78	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE		R534 R535 R537 R538 R539	1-247-883-00 1-249-397-11 1-215-465-00 1-249-439-11 1-215-437-00	CARBON CARBON METAL CARBON METAL	150K 22 68K 68K 4.7K	5% 5% 1% 5% 1%	1/4W 1/4W 1/4W 1/4W	F
<res< td=""><td>SISTOR&gt;  CARBON 100K 5% 1/4W CARBON 4.7K 5% 1/4W</td><td></td><td>R541 R542</td><td>1-249-397-11 1-215-890-11</td><td>CARBON METAL OXIDE METAL CARBON METAL OXIDE</td><td>22 470</td><td>5% 5%</td><td>1/4W 2W 1/4W</td><td>F</td></res<>	SISTOR>  CARBON 100K 5% 1/4W CARBON 4.7K 5% 1/4W		R541 R542	1-249-397-11 1-215-890-11	CARBON METAL OXIDE METAL CARBON METAL OXIDE	22 470	5% 5%	1/4W 2W 1/4W	F
R210 1-249-441-11 R211 1-249-425-11 R214 1-249-377-11 R219 1-249-426-11	CARBON 5.6K 5% 1/4W	P	R547 R548 R549	1-249-441-11 1-215-885-00 1-215-881-11	METAL OXIDE	15		1/4W 2W 2W	F
R221 1-249-409-11 R222 1-249-434-11	CARBON 27K 5% 1/4W (KV-32XBR36(	US/CND))	R550 R551 R552 R553	1-215-910-00 1-247-743-11 1-249-389-11 1-249-377-11	METAL OXIDE CARBON CARBON CARBON	68 220 4.7 0.47	5% 5% 5% 5%	3W 1/2W 1/4W 1/4W	1 1 1
R222 1-249-436-11 R223 1-249-433-11	(KV-32XBR26(	US/CND))	R554 R555 R558	1-249-377-11 1-202-826-00 1-259-882-11	CARBON SOLID CARBON	0.47 4.7K 3.3M	5% 20% 5%	1/4W 1/2W 1/4W	F
R223 1-249-434-11	CARBON 27K 5% 1/4W		R560 R564	1-247-901-11 1-215-470-00	CARBON Metal	820K 110K		1/4W 1/4W	
R224 1-249-409-11 R225 1-249-419-11	(KV-32XBR26 (I CARBON 220 5% 1/4W CARBON 1.5K 5% 1/4W (KV-32XBR36 (I		₹8565 A ₹8566 A 8567 8568	S. C.	CARBON	4.7K 4.7K	5% 5%	1/4W 1/4W 1/4W 1/4W	(1406
R226 1-249-417-11 R227 1-249-417-11	CARBON 1K 5% 1/4W CARBON 1K 5% 1/4W		R569	1-249-417-11	CARBON	1K	5%	1/4W	D.
R230 1-215-923-00 R231 1-249-409-11	(KŸ-32XBR36(I METAL OXIDE 10K 5% 3W CARBON 220 5% 1/4W	F F	R572 R573 R576 R584	1-249-393-11 1-249-393-11 1-249-417-11 1-215-467-00	CARBON CARBON CARBON METAL	10 10 1K 82K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	न न न
R232 1-216-380-11 R233 1-249-409-11	METAL OXIDE 8.2 5% 2W CARBON 220 5% 1/4W	F	R587	1-249-441-11	CARBON	100K	5%	1/4W	

The components identified by shading and mark A are critical for safety.
Replace only with part number

specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R589 1-249-437-11 R590 1-249-431-11 R592 1-249-429-11 R593 1-215-878-00 R594 1-247-903-00	CARBON CARBON CARBON METAL OXIDE CARBON	47K 15K 10K 33K 1M	5% 1 5% 1 5% 1 5% 1	/4W /4W /4W W /4W	F	C303 C304 C305 C306	1-126-157-11 1-164-232-11 1-163-251-11 1-163-117-00				16V 50V 50V 50V
R595 1-249-440-11 R597 1-249-437-11 R598 1-249-377-11 R599 1-249-425-11 R1401 1-215-444-00		82K 47K 0.47 4.7K 9.1K	5% 1 5% 1 5% 1	/4W /4W /4W /4W	F	C310 C314 C315 C319	1-164-505-11 1-163-109-00 1-124-915-11 1-164-505-11 1-126-157-11	CERAMIC CHIP ELECT CERAMIC CHIP ELECT			16V 50V 16V 16V 16V
R1402 1-215-444-00 R1403 1-215-430-00 R1404 1-215-430-00 R1405 1-249-385-11 R1406 1-249-385-11	METAL METAL METAL		1% 1. 1% 1. 1% 1. 5% 1.	/4W /4W /4W /4W	F F	C320 C321 C322 C323 C324	1-124-465-00 1-163-125-00 1-163-003-11 1-163-099-00 1-124-234-00	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.47MF 220PF 330PF 18PF 22MF	20% 5% 10% 5% 20%	50V 50V 50V 50V 16V
R1409 1-249-433-11 R1410 1-249-433-11 R1427 1-249-421-11 R1428 1-249-421-11 R1439 1-247-883-00		22K 22K 2.2K 2.2K 2.2K 150K	5% 1, 5% 1, 5% 1,	/4₩ /4₩		C325 C326 C327 C328 C329	1-104-563-11 1-104-563-11 1-104-563-11 1-126-157-11 1-126-157-11	FILM CHIP FILM CHIP FILM CHIP BLECT BLECT	0.1MF 0.1MF 0.1MF 10MF 10MF	5% 5% 20% 20%	16V 16V 16V 16V 16V
R1501 1-215-449-00 R1502 1-215-436-00 R1503 1-249-425-11 R1505 1-249-433-11 R1506 1-218-642-11		15K 4.3K 4.7K 22K 100K		/4W /4W /4W	F		1-126-157-11 1-126-301-11 1-124-584-00 1-163-037-11 1-137-491-11	ELECT ELECT	10MF 1MF	20% 20% 20% 10% 5%	16V 50V 10V 25V 25V
R1507 1-249-436-11 R1508 1-215-453-00 R1509 1-215-461-00 R1510 1-249-383-11 R1511 1-215-888-00	CARBON METAL METAL CARBON	39K 22K 47K 1.5	5% 1, 1% 1, 1% 1, 5% 1,	/4W /4W /4W	F	£339	1-136-169-00 1-126-301-11 1-126-301-11 1-124-584-00 1-124-791-11	FILM ELECT ELECT ELECT ELECT	0.22MF 1MF 1MF 100MF 1MF	5% 20% 20% 20% 20% 20%	50V 50V 50V 10V 50V
R1512 1-216-371-00 R1513 1-249-436-11 R1550 1-215-881-11 R4002 1-249-385-11 R4003 1-216-361-00	METAL OXIDE CARBON METAL OXIDE CARBON METAL OXIDE	1.5 39K 15 2.2	5% 20 5% 1/ 5% 20 5% 1/	W /4U U /4U	F F F	C340 C341 C342 C343 C344	1-126-157-11 1-124-465-00 1-124-589-11	CERAMIC CHIP	10MF 0.47MF 47MF 0.01MF	10% 20% 20% 20% 10%	50V 16V 50V 16V 50V
R4004 1-216-374-00 R4006 1-216-396-11	METAL OXIDE	2.7	5% 21 5% 31	W W	r F		1-124-767-00 1-164-232-11 1-136-169-00 1-163-117-00 1-126-301-11	ELBCT CERAMIC CHIP FILM CERAMIC CHIP ELECT	2.2MF 0.01MF 0.22MF 100PF 1MF	20% 10% 5% 5% 20%	50 V 50 V 50 V 50 V 50 V
SG501 1-519-422-11	RK GAP> GAP, SPARK NSFORMER>					C350 C351 C352 C353 C354	1-126-301-11 1-163-002-11 1-164-489-11 1-126-163-11 1-136-169-00	CERAMIC CHIP CERAMIC CHIP ELECT	1MF 270PF 0.22MF 4.7MF 0.22MF	20% 10% 10% 20% 5%	50 V 50 V 16 V 50 V 50 V
7501 A 1-439-513-11 7503 1-437-217-11 7505 1-413-059-00	TRANSFORMER AS TRANSFORMER, I TRANSFORMER, I	HORIZON	TAL DRIV		0243)	C355 C356 C357 C358 C360	1-124-465-00 1-163-017-00 1-163-117-00 1-124-767-00 1-137-491-11	ELECT CERAMIC CHIP CERAMIC CHIP ELECT FILM CHIP	0.47MF 0.0047MF	20% 10% 5% 20% 5%	50V 50V 50V 50V 25V
<the 1-807-970-11="" <tun<="" td="" thp150=""><td></td><td></td><td></td><td></td><td></td><td>C361 C362 C363 C364 C365</td><td>1-126-301-11 1-164-232-11 1-164-232-11 1-126-301-11 1-164-343-11</td><td>ELECT CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP</td><td>0.01MF 1MF</td><td>20% 10% 10% 20% 10%</td><td>50V 50V 50V 50V 25V</td></the>						C361 C362 C363 C364 C365	1-126-301-11 1-164-232-11 1-164-232-11 1-126-301-11 1-164-343-11	ELECT CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 1MF	20% 10% 10% 20% 10%	50V 50V 50V 50V 25V
TU1014 1-693-102-22 **********************************	*************** E1 BOARD, COMI	******* PLETE	-Pid-di	7.1	[(8) ********	C366 C367 C368 C369 C370	1-124-257-00 1-126-157-11 1-124-234-00 1-163-001-11 1-164-232-11	ELECT ELECT ELECT CERAMIC CHIP CERAMIC CHIP		20% 20% 20% 10% 10%	50V 16V 16V 50V 50V
	ACITOR> CERAMIC CHIP (		F 102	ž	50 <b>V</b>	C371 C372 C373 C378 C379	1-124-126-00 1-124-589-11 1-164-232-11 1-163-117-00 1-164-232-11	ELECT ELECT CERAMIC CHIP CERAMIC CHIP	100PF	20% 20% 10% 5% 10%	16V 16V 50V 50V 50V

REF.NO.	PART NO.	DESCRIPTION	REMARI	REF.NO.	PART NO.	DESCRIPTION		RI	EMARK
C380 C381 C382	1-163-137-00 1-163-101-00	CERAMIC CHIP 680PF 5 CERAMIC CHIP 22PF 5 CERAMIC CHIP 0 1ME	5% 50V 5% 50V 10% 25V	Q316 Q317	8-729-422-27 8-729-216-22	TRANSISTOR 2SD601 TRANSISTOR 2SA116	A-Q 2-G		
C383 C384	1-164-004-11 1-163-095-00	CERAMIC CHIP 680PF CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 12PF  DB>		Q321 Q322 Q323 Q324 Q325	8-729-216-22 8-729-422-27 8-729-216-22	TRANSISTOR IMX3 TRANSISTOR 2SA116 TRANSISTOR 2SD601 TRANSISTOR 2SA116 TRANSISTOR 2SA116	A-Q 2-G		
D301		DIODE MA110							
D302 D303 D304 D305	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110 DIODE MA110		Q326 Q327 Q328 Q329 Q330	8-729-422-27	TRANSISTOR 2SD601 TRANSISTOR 2SD601 TRANSISTOR 2SD601 TRANSISTOR IMX3 TRANSISTOR IMX3	A-Q A-Q		
D306 D307	8-719-158-15 8-719-404-46 8-719-158-15 8-719-404-46	DIODE RD5.6SB DIODE MA110 DIODE RD5.6SB DIODE MA110 DIODE MA110		Q333 Q334 Q335 Q340 Q342	8-729-422-27 8-729-907-46	TRANSISTOR IMX3 TRANSISTOR 2SD601 TRANSISTOR IMZ1 TRANSISTOR 2SD601 TRANSISTOR IMX3			
D314	8-719-404-46	DIODE MA110		Q344	8-729-216-22	TRANSISTOR 2SA116	52-G		
D315 D316 D317 D318	8-719-404-46 8-719-404-46	DIODE MA110				ISTOR>			
D319 D320 D321	8-719-404-46 8-719-404-46 8-719-400-94	DIODE MA110 DIODE MA110 DIODE MA3130		R301 R302 R303 R304 R305	1-216-025-00 1-216-057-00 1-216-079-00 1-216-081-00 1-216-069-00	METAL GLAZE 100 METAL GLAZE 2.3 METAL GLAZE 180 METAL GLAZE 220 METAL GLAZE 6.8	5% 2K 5% K 5% K 5% SK 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<del.< td=""><td>AY LINE&gt;</td><td></td><td>R306</td><td>1-216-081-00</td><td>METAL GLAZE 221 METAL GLAZE 471</td><td>5%</td><td>1/10W 1/10W</td><td></td></del.<>	AY LINE>		R306	1-216-081-00	METAL GLAZE 221 METAL GLAZE 471	5%	1/10W 1/10W	
DL302	1-415-817-11	DELAY LINE		R307 R308 R309 R310	1-216-089-00 1-216-037-00 1-216-073-00 1-216-065-00	METAL GLAZE 330 METAL GLAZE 101 METAL GLAZE 4.	5%	1/10W 1/10W 1/10W 1/10W	
	<con< td=""><td>NECTOR&gt;</td><td></td><td>R312</td><td>1-216-043-00</td><td>METAL GLAZE 560</td><td></td><td>1/10W</td><td></td></con<>	NECTOR>		R312	1-216-043-00	METAL GLAZE 560		1/10W	
E1-24 E1-25 E1-26 E1-001	1-564-523-11 *1-564-521-11 *1-564-522-11 1-573-965-21	NECTOR> PLUG, CONNECTOR 8P PLUG, CONNECTOR 6P PLUG, CONNECTOR 7P PIN, CONNECTOR (PC BOARD)	50P	R313 R314 R316 R317	1-216-035-00 1-216-061-00 1-216-035-00 1-216-121-00	METAL GLAZE 270 METAL GLAZE 3.3	3K 5% 0 5%	1/10W 1/10W 1/10W 1/10W	
	<10>			R320 R325	1-216-039-00 1-216-033-00	METAL GLAZE 220	5%	1/10W 1/10W	
10302	8-752-058-68 8-752-059-67 8-759-106-02	IC CXA1315M IC CXA1465AS IC UPC4570G2		R326 R331 R332	1-216-057-00 1-216-017-00 1-216-657-11	METAL GLAZE 2.1 METAL GLAZE 47 METAL CHIP 1.1	2K 5% 5% 8K 0.50%	1/10W 1/10W 1/10W	
. 0505	0 199 100 02			R333 R336	1-216-047-00	METAL GLAZE 1.: METAL GLAZE 82	2K 5% 0 5%	1/10W	
	<c0i< td=""><td></td><td></td><td>R338 R339</td><td>1-216-043-00 1-216-047-00</td><td>METAL GLAZE 56 METAL GLAZE 82</td><td>0 5%</td><td>1/10W 1/10W</td><td></td></c0i<>			R338 R339	1-216-043-00 1-216-047-00	METAL GLAZE 56 METAL GLAZE 82	0 5%	1/10W 1/10W	
L301 L307	1-410-064-11 1-410-944-31	INDUCTOR CHIP 150H	•	R340	1-216-651-11	METAL CHIP 1K		1/10₩	
L308	1-410-946-31	INDUCTOR CHIP 22UH		R341 R343	1-216-043-00 1-216-077-00	METAL GLAZE 56 METAL GLAZE 15 METAL GLAZE 22	U 24 K 5% V 5%	1/10W 1/10W 1/10W	
	<tra< td=""><td>NSISTOR&gt;</td><td></td><td>R344 R345 R346</td><td>1-216-081-00 1-216-292-11 1-216-081-00</td><td>METAL GLAZE 8. METAL GLAZE 22</td><td>2M 5%</td><td>1/8W 1/10W</td><td></td></tra<>	NSISTOR>		R344 R345 R346	1-216-081-00 1-216-292-11 1-216-081-00	METAL GLAZE 8. METAL GLAZE 22	2M 5%	1/8W 1/10W	
Q301 Q302	8-729-925-79 8-729-925-79	TRANSISTOR IMX3 TRANSISTOR IMX3		R347	1-216-081-00	METAL GLAZE 22	K 5%	1/10W	
0303 0304	8-729-422-27 8-729-907-46	TRANSISTOR 2SD601A-Q TRANSISTOR IMZ1		R348 R349	1-216-049-00 1-216-295-00	METAL GLAZE O	5% 5%	1/10W 1/10W	
Q305	8-729-925-79	TRANSISTOR IMX3		R350 R351	1-216-089-00 1-216-674-11	METAL GLAZE 47	K 5% 1K 0.50%	1/10W 1/10W	
Q306 Q307	8-729-903-10	TRANSISTOR 2SD601A-Q TRANSISTOR FMW1 TRANSISTOR 2SD601A-0		R352 R353	1-216-011-00 1-216-001-00	METAL GLAZE 27 METAL GLAZE 10	5%	1/10W 1/10W	
Q309 Q310 Q311	8-729-422-27 8-729-422-27 8-729-403-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR XN4401	,	R354 R355	1-216-049-00 1-216-049-00 1-216-001-00	METAL GLAZE 1K	5%	1/10W 1/10W	
Q312	8-729-422-27	TRANSISTOR 2SD601A-Q		R356	1-216-001-00	METAL GLAZE 10		1/10W	
0314 0315	8-729-403-27 8-729-422-27	TRANSISTOR XN4401 TRANSISTOR 2SD601A-Q		R357 R358	1-216-049-00 1-216-049-00	NETAL GLAZE 1K NETAL GLAZE 1K		1/10W 1/10W	

REF.NO	. PART NO.	DESCRIPTION				RENARK	REF.NO	PART NO.	DESCRIPTION				REMARK
R359	1-216-049-00	METAL GLAZE	1K 820K		1/10W			1-216-025-00		100	5%	1/10W	
R360 R361 R362 R363	1-216-025-00 1-216-079-00 1-216-295-00	METAL GLAZE METAL GLAZE	820K 100 18K 0	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R1326 R1327 R1328 R1329	1-216-073-00 1-216-033-00 1-216-033-00 1-216-077-00	METAL GLAZE	10K 220 220 15K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R364 R365 R366 R367 R368	1-216-045-00 1-216-017-00 1-216-001-00 1-216-045-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 47 10 680 10	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1330 R1331 R1332 R1333	1-216-081-00 1-216-081-00 1-216-093-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 68K	5% 5% 5%	1/10W 1/10W 1/10W	
R369 R370	1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1/10W		R1334 R1335	1-216-129-00 1-216-097-00 1-216-089-00	METAL GLAZE METAL GLAZE	2.2M 100K 47K	5% 5%	1/10W 1/10W 1/10W	
R371 R372 R373	1-216-033-00 1-216-031-00 1-216-671-11	METAL GLAZE METAL GLAZE METAL CHIP	220 180 6.8K	5%	1/10W 1/10W 1/10W		R1336 R1337 R1338 R1339	1-216-089-00 1-216-065-00 1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 4.7K 47K 47K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W	
R374 R375 R376 R377	1-216-037-00 1-216-037-00 1-216-037-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 330 330 220	5% 5% 5%	1/10W 1/10W 1/10W		R1340	1-216-073-00	METAL GLAZE	10K 220	5% 5% 5%	1/10W 1/10W 1/10W	
R378 R379	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220	5%	1/10W 1/10W 1/10W		R1344	1-216-105-00 1-216-091-00 1-216-101-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 56K 150K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R380 R381 R382 R383	1-216-033-00 1-216-033-00 1-216-033-00 1-216-653-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	220 220 220 1.2K	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W		R1346 R1347 R1348 R1349 R1350 R1351	1-216-049-00 1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 O K	5% 5%	1/10W 1/10W 1/10W	
R384 R385 R386	1-216-041-00 1-216-081-00 1-216-687-11	METAL GLAZE METAL GLAZE METAL CHIP	33K	5% 5% 0.50%	1/10W 1/10W 1/10W		R1350 R1351 R1352	1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE	56K 1K 390	5% 5% 5%	1/10W 1/10W 1/10W	
R387 R388 R389	1-216-033-00 1-216-033-00 1-216-081-00	METAL GLAZE METAL GLAZE	220 220 22K		1/10W 1/10W 1/10W		R1353 R1354 R1355 R1356	1-216-053-00 1-216-081-00 1-216-017-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 22K 47 2.2K	55555555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W	
R390 R391 R393 R394	1-216-033-00 1-216-049-00 1-216-051-00 1-216-109-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 1K 1.2K 330K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R1357 R1358 R1362	1-216-081-00 1-216-033-00 1-216-105-00		22K 220 220K	5%	1/10W 1/10W 1/10W	
R395 R396 R397	1-216-071-00 1-216-105-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 220K 22K	5% 5% 5%	1/10W 1/10W 1/10W		R1363 R1364 R1373	1-216-041-00 1-216-053-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 1.5K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R398 R399 R1301	1-216-081-00 1-216-077-00 1-216-049-00	METAL GLAZE METAL GLAZE	22K 15K 1K	5% 5%	1/10W 1/10W 1/10W		R1380	1-216-049-00 1-216-025-00 1-216-079-00 1-216-075-00 1-216-041-00	METAL GLAZE	100 18K 12K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W	
R1302	1-216-045-00 1-216-085-00 1-216-081-00 1-216-025-00	METAL GLAZE	680	5% 5% 5%	1/10@				METAL GLAZE METAL GLAZE METAL GLAZE	470 18K 15K		1/10W 1/10W 1/10W	
R1306 R1307	1-216-057-00 1-216-073-00	METAL GLAZE METAL GLAZE	2.2K 10K		1/10W 1/10W		R1385 R1386	1-216-079-00 1-216-077-00 1-216-049-00 1-216-037-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	330 330	5% 5% 5%	1/10W 1/10W 1/10W	
R1310	1-216-065-00 1-216-025-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 100 680	5% 5% 5% 5%	1/10W 1/10W 1/10W		R1389	1-216-045-00 1-216-001-00 1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 10 100K 100K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R1311 R1312 R1313 R1314	1-216-049-00 1-216-073-00 1-216-081-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 10K 22K 4.7K	5%	1/10W 1/10W 1/10W 1/10W		R1391 R1392	1-216-097-00 1-216-081-00	METAL GLAZE	100K 22K		1/10W 1/10W	
	1-216-049-00 1-216-081-00	METAL GLAZE	1 K 22 K		1/10W 1/10W		R1395 R1396	1-216-081-00 1-216-081-00 1-216-125-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 1.5M 4.7K	5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R1318 R1319 R1320		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 4.7K 4.7K 3.9K	5% 5%	1/10W 1/10W 1/10W 1/10W	1	R5302 R5303	1-216-057-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R1321 R1322 R1323 R1324		METAL GLAZE METAL GLAZE METAL GLAZE	22K 3.3K 47K	5% 5%	1/10W 1/10W 1/10W				METAL GLAZE METAL GLAZE	33K 33K	5% 5%	1/10W 1/10W	
11744	1 210 043 00	METAL GLAZE	680	24	1/10W	i							

<b>E</b> 1	<b>E2</b>
------------	-----------

F	REF.NO.	PART NO.	DESCRIPTION	¢	REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
		<crys< td=""><td></td><td></td><td></td><td>E2-46</td><td>*1-564-518-11 1-573-965-21</td><td>PLUG, CONNEC</td><td>TOR 3P</td><td>1001</td><td>EOD</td><td></td></crys<>				E2-46	*1-564-518-11 1-573-965-21	PLUG, CONNEC	TOR 3P	1001	EOD	
	X301	1-567-505-11	OSCILLATOR, CRYSTAL 3.9	5MHZ		€2-002	1-573-965-21	PIN, CUNNECT	UK (PL BI	JAKU)	5UP	
			:********		:::::::		<1C>					
			E2 BOARD, COMPLETE	•		IC2304 IC2306	8-759-066-52 8-759-925-75 8-752-037-15 8-759-011-65 8-752-058-68	IC CXA1387S IC MC74HC405				
	C3303			107	50V							
	C2310 C2314	1-163-105-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF CERAMIC CHIP 33PF CERAMIC CHIP 0.01MF ELECT 10MF	10% 5% 10% 20%	50V 50V 50V 16V	L2304	<01 1-408-414-00		27UH			
	C2316 C2317	1-126-157-11	ELECT 10MF	20% 20%	16V 16V		<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td></tra<>	NSISTOR>				
	C2318 C2320 C2321	1-124-589-11 1-163-017-00	CERAMIC CHIP 0.01MF ELECT 47MF CERAMIC CHIP 0.0047MF	10% 20% 10% 20%	50V 16V 50V	02303	8-729-903-10 8-729-403-27 8-729-925-79 8-729-903-10 8-729-403-27	TRANSISTOR D	KN4401 [MX3 FMW1			
	C2322 C2323 C2324 C2325 C2326	1-124-589-11	ELECT 22MF ELECT 22MF CERAMIC CHIP 0.01MF ELECT 47MF	20% 20% 10% 20%	16V 16V 16V 50V 16V	Q2307 Q2308 Q2309 Q2310	8-729-403-27 8-729-403-27 8-729-903-10 8-729-403-27	TRANSISTOR : TRANSISTOR I TRANSISTOR :	XN4401 FMW1 XN4401			
	C2328 C2329 C2331	1-164-505-11 1-164-232-11 1-164-232-11 1-164-232-11 1-124-234-00	CERAMIC CHIP 2.2MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 22MF	10% 10% 10% 20%	16V 50V 50V 50V 16V	Q2311 Q2312 Q2313 Q2314	8-729-403-27 8-729-903-10 8-729-403-27	TRANSISTOR : TRANSISTOR : TRANSISTOR :	XN4401 FMW1 XN4401			
	C2334 C2335 C2336	1-124-234-00	BLECT 22MF CERANIC CHIP 0.01MF		16V 50V 50V 16V 50V	02318	8-729-216-22 8-729-216-22 8-729-216-22 8-729-422-27	TRANSISTOR : TRANSISTOR : TRANSISTOR : TRANSISTOR :	2SA1162-G 2SA1162-G 2SA1162-G 2SD601A-Q			
	C2340 C2341 C2345	1-163-038-00 1-216-133-00 1-135-217-21 1-164-505-11 1-164-232-11	CERAMIC CHIP 0.1MF METAL GLAZE 3.3M 5% TANTAL. CHIP 15MF CERAMIC CHIP 2.2MF CERAMIC CHIP 0.01MF	1/10W	25V 6.3V 16V 50V	Q2322 Q2324 Q2326 Q2327	8-729-422-27 8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SD601A-Q 2SA1162-G 2SD601A-Q 2SD601A-Q			
	C2347 C2349 C2350 C2351 C2352	1-164-232-11 1-164-505-11	CERAMIC CHIP 39PF CERAMIC CHIP 2.2MF CERAMIC CHIP 0.01MF CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF		50V 16V 50V 16V 16V	Q2329	8-729-925-79 8-729-903-10 8-729-925-79 8-729-925-79	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	IMX3 FMW1 IMX3 IMX3	1		
	C2357	1-164-232-11 1-164-232-11 1-126-301-11 1-163-109-00	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 1MF CERAMIC CHIP 47PF	10% 10% 20% 5%	50V 50V 50V 50V	Q2340	8-729-422-27 8-729-422-27	TRANSISTOR	2SD601A-0	1 .		
		/n r o	nc.				<re< td=""><td>SISTOR&gt;</td><td></td><td></td><td></td><td></td></re<>	SISTOR>				
	D2306 D2307 D2308 D2309 D2312	8-719-404-46 8-719-946-98 8-719-946-98 8-719-404-46	DIODE MA110 DIODE FMN1 DIODE FMN1 DIODE FMN1 DIODE MA110 DIODE MA110			R2302 R2303 R2304 R2305 R2306	1-216-049-00 1-216-049-00 1-216-033-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 220 680	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
	D2313 D2314		DIODE MA110 DIODE 1733 DIODE MA110			R2307 R2308 R2309 R2310 R2311	1-216-045-00 1-216-041-00 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE	680 470 1.8K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	E2-25 E2-26	*1-564-521-11	NECTOR> PLUG, CONNECTOR 6P PLUG, CONNECTOR 7P			R2313	1-216-043-00 1-216-055-00 1-216-061-00	METAL GLAZE	1.8K	5% 5% 5%	1/10W 1/10W 1/10W	



RE	F.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R R R	2317 2318 2319	1-216-081-00 1-216-041-00 1-216-055-00 1-216-079-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 470 1.8K 18K 3.3K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2387 R2388 R2389 R2390	1-216-025-00 1-216-017-00 1-216-206-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 47 2.2K 560	5% 5% 5%	1/10W 1/10W 1/8W 1/10W	
R R R	2323	1-216-049-00 1-216-067-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K	5% 5% 5%	1/10W 1/10W 1/10W		R2394 R2395 R2396	1-216-049-00 1-216-001-00 1-216-206-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 10 2.2K	5% 5%	1/8W 1/10W 1/10W 1/10W 1/8W 1/10W	
R R R	2326 2327 2328 2329 2330	1-216-061-00 1-216-063-00 1-216-025-00 1-216-025-00 1-216-061-00		3.3K 3.9K 100 100 3.3K	57	1/10W		R3303	1-216-069-00	METAL GLAZE	6.8K	52	1/10W 1/10W 1/10W 1/10W 1/10W	
R R: R:	2334	1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 100 5.6K 0	5% 5%	1/10W		R3307	1-216-085-00	METAL GLAZE	47K 33K 560 1K	55.55.55.55.55.55.55.55.55.55.55.55.55.	1/10W 1/10W 1/10W 1/10W 1/10W	
R: R: R:	2340	1-216-295-00 1-216-033-00 1-216-081-00 1-216-049-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 220 22K 1K 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R3312 R3313 R3314	1-216-081-00 1-216-049-00 1-216-083-00 1-216-689-11	HUTHU GONZE	2211	2.00	1/10W 1/10W 1/10W 1/10W	
R: R: R:	2343 2344 2345	1-216-049-00 1-216-049-00 1-216-033-00 1-216-077-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 220 15K 1K	5% 5%	1/10W 1/10W		R3318 R3319	1-216-089-00 1-216-071-00 1-216-095-00 1-216-095-00 1-216-017-00 1-216-069-00 1-216-101-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 8.2K 82K 82K 47 6.8K 150K	27	1/10W 1/10W 1/10W 1/10W 1/10W	
		1-216-083-00 1-216-655-11 1-216-025-00 1-216-097-00 1-216-033-00	METAL GLAZE	27K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		R3323 R3323 R3324 R3325 R3328 R3330 R3331	1-216-069-00 1-216-101-00 1-216-049-00 1-216-025-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 150K 1K 100 10	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R: R: R: R:	2352 2353 2354 2355 2356	1-216-097-00 1-216-097-00 1-216-210-00 1-216-178-00 1-216-677-11	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP METAL CHIP METAL GLAZE	100K 100K 3.3K 150 12K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/8W 1/8W 1/10W		R3330 R3331 R3332 R3333 R3334	1-216-033-00 1-216-033-00 1-216-081-00 1-216-657-11 1-216-661-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP	220 220 22K 1.8K 2.7K	5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
R R R	2357 2359 2360 2361 2362	1-216-670-11 1-216-053-00 1-216-053-00 1-216-053-00 1-216-053-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.2K 1.5K 1.5K 1.5K 1.5K	0.50% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R3335 R3336 R3337 R3339 R3340	1-216-025-00 1-216-683-11 1-216-685-11 1-216-081-00 1-216-049-00	METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE	100 22K 27K 22K 1K	0.50%	1/10W	
ĸ,	4300	1-216-041-00 1-216-053-00 1-216-053-00 1-216-081-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1.5K 1.5K 22K 560	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		K5344	1-216-677-11 1-216-670-11 1-216-097-00 1-216-097-00 1-216-687-11	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP	12K 6.2K 100K 100K 33K	0.50% 0.50% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W	
R: R: R:	2368 2371 2374 2375	1-216-081-00 1-216-033-00 1-216-067-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 220 5.6K 22K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R3348 R3349 R3350 R3351	1-216-681-11 1-216-073-00 1-216-065-00 1-216-065-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	18K 10K 4.7K 4.7K	0.50% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R: R: R: R:	2377 2378 2379 2380	1-216-025-00 1-216-025-00 1-216-043-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 560 560		1/10W 1/10W 1/10W 1/10W 1/10W		R3353 R3354 R3356 R3357	1-216-655-11 1-216-654-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP	1.3K	5% 5% 5% 0.50% 0.50%	1/10W	
R: R: R:	2382 2384 2385	1-216-043-00 1-216-073-00 1-216-081-00 1-216-075-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 22K 12K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R3359 R3360 R3361	1-216-659-11 1-216-653-11 1-216-077-00 1-216-049-00 1-216-097-00	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 1.2K 15K 1K 100K	0.50% 0.50% 5% 5%		

## E2 M

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R3365 R3367 R3368	1-216-097-00	METAL GLAZE 10	5K 5% 7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		D011	8-719-404-46 8-713-300-57 8-719-404-46 8-719-404-46 8-719-404-46	DIODE 1T33 DIODE MA110 DIODE MA110			
R3371 R3373 R3374	1-216-001-00 1-216-001-00 1-216-673-11 1-216-059-00 1-216-056-00	METAL GLAZE 10 METAL CHIP 8.	.2K 0.50% .7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		DO15	8-719-404-46 <ic></ic>	DIODE WATTO	0		
R3376 R3377	1-216-647-11 1-216-659-11	METAL CHIP 68	K 0.50% 80 0.50% 80 0.50% .2K 0.50% .5K 0.50%	1/10W		IC002	8-759-403-44 <coi< td=""><td>IC MN1280-S</td><td></td><td></td><td></td></coi<>	IC MN1280-S			
R3381 R3382 R3392	1-216-661-11 1-216-025-00 1-216-295-00 1-216-089-00	METAL CHIP 2: METAL GLAZE 10 METAL GLAZE 0 METAL GLAZE 4	.7K 0.50% 00 5% 7K 5% .2K 5%	1/10W 1/10W 1/10W		L001 L002	1-408-409-00 1-410-476-11 <con< td=""><td>INDUCTOR INDUCTOR</td><td>10UH 33UH</td><td></td><td></td></con<>	INDUCTOR INDUCTOR	10UH 33UH		
R3401 R7312 R7313	1-216-057-00 1-216-049-00 1-216-047-00 1-216-057-00		K 5% 20 5%	1/10W 1/10W 1/10W 1/10W		M-45	*1-564-523-11	PLUG, CONNECTO PLUG, CONNECTO PIN, CONNECTOR	JR 8P	) 50P	
	<crv< td=""><td>STAL&gt;</td><td></td><td></td><td></td><td></td><td><tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<></td></crv<>	STAL>					<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<>	NSISTOR>			
	1-577-071-11	VIBRATOR, CERAM		*****	:*****	Q001 Q009 Q010 Q011 Q012	8-729-216-22 8-729-422-27 8-729-422-27 8-729-422-27 8-729-422-27	TRANSISTOR 2SA TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD TRANSISTOR 2SD	0601A-Q 0601A-Q		
	*A-1306-436-A	M BOARD, COMPLE	TE **				8-729-216-22	TRANSISTOR 2SA TRANSISTOR 2SA	1162-G		
		ACITOR>					<re><res< p=""></res<></re>	ISTOR>			
C001 C002 C003 C004 C005	1-136-161-00 1-126-301-11	CERAMIC CHIP 22: FILM 0.1 BLECT 1M	047MF	5% 20%	50V 50V 50V 50V 50V	R001 R002 R003 R004 R005	1-216-045-00 1-216-097-00 1-216-121-00 1-216-073-00 1-216-073-00	METAL GLAZE	680 5% 100K 5% 1M 5% 10K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C014 C017 C018 C019 C020	1-124-910-11 1-124-589-11 1-163-141-00 1-164-695-11 1-163-241-11	ELECT 47 ELECT 47 CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 39	MF 001MF 0022MF	20% 20% 5% 5% 5%	50V 16V 50V 50V 50V	R006	1-216-065-00 1-216-027-00 1-216-041-00 1-216-027-00 1-216-033-00	METAL GLAZE NETAL GLAZE	4.7K 5% 120 5% 470 5% 120 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C021 C029 C030 C034 C035	1-163-239-11 1-163-115-00 1-163-115-00 1-163-125-00 1-163-125-00	CERAMIC CHIP 33 CERAMIC CHIP 82 CERAMIC CHIP 82 CERAMIC CHIP 22 CERAMIC CHIP 22	PF PF OPF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V	R012 R013 R014 R015 R016	1-216-033-00 1-216-067-00 1-216-057-00 1-216-089-00 1-216-067-00	NETAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 5.6K 5% 2.2K 5% 47K 5% 5.6K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C036 C041 C042 C045 C047	1-163-125-00 1-163-117-00 1-163-117-00 1-163-125-00 1-124-261-00	CERAMIC CHIP 22 CERAMIC CHIP 10 CERAMIC CHIP 10 CERAMIC CHIP 22 ELECT 10	10PF 10PF 20PF	5% 5% 5% 5% 20%	50V 50V 50V 50V 50V	R017 R018 R019 R033 R034	1-216-067-00 1-216-065-00 1-216-073-00 1-216-073-00 1-216-033-00	NETAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 5% 4.7K 5% 10K 5% 10K 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
CO48 CO49 CO55 CO64 CO65	1-124-261-00 1-124-261-00 1-163-809-11 1-163-121-00 1-124-257-00	ELECT 10 CERAMIC CHIP O. CERAMIC CHIP 15	)MF .047MF 50PF	20% 20% 10% 5% 20%	50V 50V 25V 50V 50V	R035 R036 R037 R038 R039	1-216-033-00 1-216-033-00 1-216-073-00 1-216-033-00 1-216-073-00	NETAL GLAZE NETAL GLAZE NETAL GLAZE METAL GLAZE NETAL GLAZE	220 5% 220 5% 10K 5% 220 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
D001 D002	<010 8-719-404-46 8-719-404-46	DIODE MA110				R040 R041 R042 R043	1-216-089-00 1-216-057-00 1-216-065-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 2.2K 5% 4.7K 5% 220 5%	1/10W 1/10W 1/10W 1/10W	



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R045 R046 R047	1-216-033-00 1-216-025-00 1-216-065-00 1-216-065-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 100 5% 4.7K 5% 4.7K 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/10W			*A-1195-066-A <cap< td=""><td>P1 BOARD, CO ************************************</td><td>MPLETE *****</td><td></td><td></td></cap<>	P1 BOARD, CO ************************************	MPLETE *****		
R049 R050 R051 R052 R053	1-216-065-00 1-216-295-00 1-216-033-00 1-216-065-00 1-216-065-00	METAL GLAZE	4.7K 5% 0 5% 220 5% 4.7K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3001 C3002 C3003 C3004 C3005	<cap 1-124-589-11 1-164-346-11 1-164-232-11 1-163-119-00 1-163-235-11</cap 	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	47MF 1MF 0.01MF 120PF 22PF	20% 10% 5% 5%	16V 16V 50V 50V
R054 R055 R056 R057 R058	1-216-073-00 1-216-073-00 1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	10K 5% 10K 5% 4.7K 5% 4.7K 5% 4.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3006 C3007 C3008 C3009 C3010	1-164-232-11 1-164-005-11 1-164-004-11 1-124-925-11 1-163-145-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 0.47MF 0.1MF 2.2MF 0.0015MF	10% 10% 20% 5%	50Y 25Y 25Y 50Y 50Y
R059 R060 R063 R064 R065	1-216-073-00 1-216-065-00 1-216-033-00 1-216-053-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 4.7K 5% 220 5% 1.5K 5% 220 5%				1-163-018-00 1-164-336-11 1-164-222-11 1-164-004-11 1-164-232-11				50V 25V 25V 25V 50V
R066 R067 R068 R069 R070	1-216-033-00 1-216-033-00 1-216-033-00 1-216-049-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 220 5% 220 5% 1% 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3016 C3017 C3018 C3019 C3020	1-163-107-00 1-130-495-00 1-163-115-00 1-164-232-11 1-163-105-00	CERAMIC CHIP MYLAR CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	39PF 0.1MF 82PF 0.01MF 33PF	5% 5% 10% 5%	50V 50V 50V 50V 50V
R071 R072 R073 R074 R075	1-216-033-00 1-216-033-00 1-216-057-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 220 5% 2.2% 5% 220 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3021 C3022 C3023 C3024 C3025	1-163-115-00 1-126-301-11 1-124-589-11 1-163-018-00 1-164-343-11	CERAMIC CHIP	0.0056MF	5% 20% 20% 10% 10%	50V 50V 16V 50V 25V
R076 R077 R078 R079 R080	1-216-089-00 1-216-057-00 1-216-033-00 1-216-025-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 2.2K 5% 220 5% 100 5% 3.3K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3026 C3027 C3028 C3029	1-126-163-11 1-163-275-11 1-124-589-11 1-163-133-00 1-163-037-11	ELECT CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	4.7MF 0.001MF 47MF 470PF 0.022MF	20% 5% 20% 5% 10%	50V 50V 16V 50V 25V
R081 R082 R083 R084 R085	1-216-033-00 1-216-033-00 1-216-033-00 1-216-097-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 220 5% 220 5% 100K 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/10W			1-126-177-11 1-164-004-11 1-164-004-11 1-164-336-11 1-163-117-00				6.3V 25V 25V 25V 50V
R086 R087 R088 R089 R090	1-216-033-00 1-216-033-00 1-216-033-00 1-216-089-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 220 5% 220 5% 47K 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3036 C3037 C3038 C3039 C3040	1-164-004-11 1-124-589-11 1-136-287-11 1-164-004-11 1-164-232-11	CERAMIC CHIP ELECT FILM CERAMIC CHIP CERAMIC CHIP	U. IMF	10% 20% 5% 10% 10%	25V 16V 50V 25V 50V
R091 R092 R093 R094 R095	1-216-065-00 1-216-077-00 1-216-065-00 1-216-033-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 15K 5% 4.7K 5% 220 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3042 C3043 C3044 C3045 C3046	1-164-346-11 1-124-465-00 1-126-301-11 1-124-589-11 1-126-301-11	CBRAMIC CHIP ELECT ELECT ELECT ELECT	1MF 0.47MF 1MF 47MF 1MF	20% 20% 20% 20%	16V 50V 50V 16V 50V
R096 R097 R098 R099 R100	1-216-065-00 1-216-065-00 1-216-065-00 1-216-089-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 4.7K 5% 4.7K 5% 47K 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C3047 C3048 C3051 C3052 C3053	1-126-301-11 1-164-161-11 1-164-161-11 1-126-177-11 1-164-004-11	ELECT CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.0022MF 100MF	20% 10% 10% 20% 10%	50V 50V 50V 6.3V 25V
R101 R102 R103 R104	1-216-025-00 1-216-089-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 5% 47% 5% 220 5% 220 5%	1/10W 1/10W 1/10W 1/10W		C3054 C3055 C3057 C3058 C3059	1-126-177-11 1-163-133-00 1-124-589-11 1-163-009-11 1-164-222-11	ELECT CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	47MF 0.001MF	20% 5% 20% 10%	6.3V 50V 16V 50V 25V
X001	<crys< td=""><td>STAL&gt; .vibrator, crys</td><td>STAL 6NHZ</td><td></td><td></td><td>C3060 C3064</td><td>1-124-589-11 1-163-123-00</td><td>ELECT CERAMIC CHIP</td><td>47MF 180PF</td><td>20% 5%</td><td>16V 50V</td></crys<>	STAL> .vibrator, crys	STAL 6NHZ			C3060 C3064	1-124-589-11 1-163-123-00	ELECT CERAMIC CHIP	47MF 180PF	20% 5%	16V 50V
*****		************	******			i					



REF.NO. PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
C3065 1-124-589-11 C3066 1-164-004-11 C3067 1-124-589-11 C3069 1-164-232-11	ELECT 47MF CERAMIC CHIP 0.1MF BLECT 47MF CERAMIC CHIP 0.01MF BLECT 100MF			Q3011 Q3012 Q3013	8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S				
C3070 1-126-177-11	ELECT 100MF	20%	6.3V 16V	Q3014 Q3100	8-729-422-27 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S	D601A-Q A1162-G			
C3072 1-124-589-11 C3073 1-124-589-11 C3074 1-163-121-00	ELECT 47MF ELECT 47MF ELECT 47MF CERAMIC CHIP 150PF CERAMIC CHIP 0.1MF	20% 20%	16V 16V			ISTOR>				
C3076 1-164-004-11	CERAMIC CHIP O. 1MF	10%	251	JR3 R3001 R3002	1-216-295-00 1-216-085-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 33K 47K	5% 1/ 5% 1/ 5% 1/	10W 10W 10W	
C3081 1-163-095-00 C3100 1-164-004-11 C3101 1-163-115-00	CERAMIC CHIP 0.47MF CERAMIC CHIP 12PF CERAMIC CHIP 0.1MF CERAMIC CHIP 82PF	5% 10% 5%	50V 25V 50V				5.6K 56K	5% 1/	10W 10W	
				R3005 R3006 R3007	1-216-689-11 1-216-097-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE	39K 100K 18K	5% 1/ 5% 1/	10W 10W 10W	
CN151 *1-573-965-11	NECTOR> PIN, CONNECTOR (PC BOARD	) 50P		R3008 R3009	1-216-073-00 1-216-041-00	METAL GLAZE METAL GLAZE	10K 470	5% 1/ 5% 1/	10W 10W	
<dic< td=""><td>DDE&gt;</td><td></td><td></td><td>R3010 R3011 R3012</td><td>1-216-049-00 1-216-073-00 1-216-053-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>1K 10K 1.5K</td><td>5% 1/</td><td>10W 10W 10W</td><td></td></dic<>	DDE>			R3010 R3011 R3012	1-216-049-00 1-216-073-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 10K 1.5K	5% 1/	10W 10W 10W	
D3003 8-719-158-15 D3004 8-719-404-46 D3009 8-719-404-46	DIODE RD5.6SB DIODE MAILO DIODE MAILO			R3013 R3014	1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	4.7K	5% 1/ 5% 1/	10W 10W	
<10)	DIOSE MILLO			R3015 R3017 R3018	1-216-049-00 1-216-083-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 27K 100K	5% 1/	10W 10W 10W	
IC3001 8-759-046-25	IC TDA3769		,	R3019 R3020	1-216-077-00 1-216-099-00	METAL GLAZE METAL GLAZE	15K 120K	5% 1/	/10W /10W	
IC3002 8-759-513-48 IC3004 8-759-088-90 IC3005 8-759-088-91	DIODE RD5.6SB DIODE MA110 DIODE MA110  IC TDA3769 IC MC14528BF IC TDA2595/V9 IC SDA9187X IC SDA9187X IC SDA9188X  IC UPC78N05H IC SDA9086-3 IC UPC78N05H			R3021 R3023 R3025	1-216-075-00 1-216-065-00 1-216-015-00	METAL GLAZE METAL GLAZE METAL GLAZE	12K 4.7K 39	5 <b>%</b> 1/	/10W /10W /10W	
IC3006 8-759-112-06 IC3007 8-759-046-27	IC UPC78N05H			R3026 R3027	1-216-041-00 1-216-061-00	METAL GLAZE METAL GLAZE	470 3.3K	5% 1/ 5% 1/	/10W /10W	
IC3008 8-759-112-06	IC UPC78NO5H			R3028 R3030	1-216-027-00 1-216-073-00 1-216-047-00	METAL GLAZE METAL GLAZE METAL GLAZE	120 10K 820	5% 1/	/10W /10W /10W	
<00	L> SOUR			R3032 R3033	1-216-047-00 1-216-041-00 1-216-295-00	METAL GLAZE METAL GLAZE	470	5% 1/ 5% 1/	/10₩ /10₩	
L3002 1-408-424-00 L3003 1-408-424-00 L3004 1-410-470-11	IL> INDUCTOR 33UH INDUCTOR 180UH INDUCTOR 180UH INDUCTOR 10UH INDUCTOR 15UH INDUCTOR 15UH INDUCTOR 15UH			R3034 R3035 R3036	1-216-041-00 1-216-045-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 680 680 27K 1K	5% 1/ 5% 1/ 5% 1/	/10W /10W /10W	
L3005 1-410-472-41	INDUCTOR 150H			R3037 R3038	1-216-083-00 1-216-049-00	METAL GLAZE METAL GLAZE	27K 1K	5% 1/ 5% 1/	/10W /10W	
L3007 1-410-472-41 L3008 1-410-472-41 L3009 1-410-472-41	INDUCTOR 15UH INDUCTOR 15UH INDUCTOR 15UH		٠	R3039 R3040 R3041	1-216-073-00 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 4.7K 10K	5% 1/	/10W /10W /10W	
L3010 1-410-466-41 L3011 1-410-470-11				R3042 R3043	1-216-057-00 1-216-099-00	METAL GLAZE METAL GLAZE	2.2K 120K	5% 1/ 5% 1/	/10W /10W	
L3012 1-410-676-31 L3013 1-412-911-11 L3014 1-412-911-11	INDUCTOR 150UH INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD			R3044 R3045 R3050	1-216-089-00 1-216-295-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 0 220	5% 17	/10W /10W /10W	
L3015 1-412-911-11 L3100 1-410-392-11	INDUCTOR, FERRITE BEAD			R3052 R3053	1-216-033-00 1-216-037-00	METAL GLAZE METAL GLAZE	220 330	5% 1/	/10W /10W	
				R3055 R3056 R3057	1-216-063-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 2.7K 22K	5% 1/	/10W /10W /10W	
Q3003 8-729-216-22	ANSISTOR> TRANSISTOR 2SA1162-G			R3058 R3059	1-216-081-00 1-216-049-00 1-216-079-00	METAL GLAZE METAL GLAZE	1K 18K	5% 1, 5% 1,	/10W /10W /10W	
03004 8-729-422-27 03006 8-729-422-27 03007 8-729-216-22	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q			R3060 R3061	1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE	4.7K 1K	5% 1	/10W /10W /10W	
Q3008 8-729-422-27 Q3009 8-729-216-22	TRANSISTOR 2SA1162-G			R3062 R3063 R3064	1-216-049-00 1-216-025-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 100 0	5% 1, 5% 1,	/10W /10W /10W	
#3010 \$-149-442-21	TRANSISTOR 2SD601A-Q			I						

-
---

REE NO	PART NO.	DESCRIPTION			REMARK	!RFF NO	DART NO	DESCRIPTION			REMARK
ner . No.						MEP. NO.	TARI NO.	DESCRIPTION			
R3066 R3067	1-216-073-00 1-216-053-00 1-216-295-00	METAL GLAZE METAL GLAZE	10K 1.5K 0 39K 1K	5% 1/10W 5% 1/10W 5% 1/10W		C2519 C2520	1-126-301-11 1-126-163-11	ELECT	1MF 4.7MF	20% 20%	50V 50V
R3071	1-216-689-11 1-216-049-00	METAL GLAZE METAL GLAZE					1-163-809-11 1-124-252-00 1-126-163-11	ELECT ELECT	0.33MF 4.7MF	10% 20% 20%	25V 50V 50V
R3074 R3075	1-216-049-00 1-216-295-00 1-216-049-00	METAL GLAZE METAL GLAZE	1K 0 1K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		C2524 C2525	1-164-004-11 1-126-163-11	ELECT	0.1MF 4.7MF	10% 20%	25V 50V
R3077	1-216-043-00 1-216-037-00	METAL GLAZE METAL GLAZE				C2526 C2527 C2528	1-124-465-00	ELECT ELECT	10MF 0.47MF	10% 20% 20%	25V 16V 50V
R3079 R3082	1-216-044-00 1-216-040-00 1-216-029-00	METAL GLAZE METAL GLAZE	620 430 150 1K	5% 1/10W 5% 1/10W 5% 1/10W		C2529 C2530	1-163-989-11 1-164-182-11		0.033MF	10% 10%	25 <b>V</b> 50 <b>V</b>
R3085	1-216-049-00 1-216-119-00	METAL GLAZE METAL GLAZE	820K	5% 1/1UW		C2531 C2532 C2533	1-126-301-11 1-126-301-11 1-124-261-00	ELECT ELECT ELECT	1MF 1MF 1ONF	20% 20% 20%	50V 50V 50V
R3087 R3088	1-216-065-00 1-216-081-00 1-216-089-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 22K 47K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		C2534 C2535	1-163-257-11 1-164-004-11	CERAMIC CHIP	0.1MF	5% 10%	50V 25V
		METAL GLAZE METAL GLAZE				C2536 C2537 C2538 C2539	1-164-004-11 1-126-163-11 1-126-163-11	CERAMIC CHIP ELECT ELECT	4.7MF 4.7MF	10% 20% 20%	25V 50V 50V
R3092 R3098	1-216-053-00 1-216-296-00	METAL GLAZE	1.5K	5% 1/10W 5% 1/10W 5% 1/8W 5% 1/8W 5% 1/8W		C2540 C2541	1-164-232-11 1-164-004-11 1-163-139-00	CERAMIC CHIP CERAMIC CHIP	0.1MF	10%	50V 25V 50V
R3100	1-216-296-00	METAL GLAZE METAL GLAZE				C2542 C2543 C2544	1-124-478-11 1-124-252-00 1-164-161-11	ELECT ELECT CERAMIC CHIP	100MF 0.33MF	5% 20% 20% 10%	25V 50V 50V
R3102 R3103	1-216-047-00 1-216-057-00 1-216-049-00	METAL GLAZE METAL GLAZE	1.2K 820 2.2K 1K	5% 1/10W 5% 1/10W 5% 1/10W		C2545	1-126-301-11	ELECT	1MF 4.7MF	20%	50Y 50Y
		IABLE RESISTO	R>			C2547 C2548 C2549	1-126-163-11 1-163-809-11 1-126-163-11	ELECT CERAMIC CHIP ELECT	4.7MF 0.047MF	20% 10% 20%	25V 25V 50V
	1-241-630-11 1-238-019-11		RBON 10K			C2550	1-126-163-11	ELECT	4.7MF	20%	- 25V
RV3003	1-241-630-11	RES, ADJ, CA	RBON 10K			C2551 C2552 C2553	1-126-301-11 1-126-163-11 1-126-301-11	ELECT ELECT ELECT ELECT	1MF 4.7MF 1MF	20% 20% 20%	50V 50V 50V
	<cry:< td=""><td>STAL&gt;</td><td></td><td></td><td></td><td></td><td>1-124-234-00 1-164-004-11</td><td>CERAMIC CHIP</td><td>22MF 0.1MF</td><td>20% 10%</td><td>16V 25V</td></cry:<>	STAL>					1-124-234-00 1-164-004-11	CERAMIC CHIP	22MF 0.1MF	20% 10%	16V 25V
	1-567-505-11 <u>~</u> *******				******		1-124-257-00 1-124-234-00 1-126-301-11	ELECT	2.2MF 22MF 1MF	20% 20% 20%	50V 16V 50V
:	*A-1394-444-A	X2 BOARD, CO				C2559 C2560	1-164-004-11 1-164-161-11		0.0022MF	10% 10%	25V 50V
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>C2561 C2562 C2563</td><td>1-126-301-11 1-163-263-11 1-163-257-11</td><td>ELECT CERAMIC CHIP CERAMIC CHIP</td><td>180PF</td><td>20% 5% 5%</td><td>50V 50V 50V</td></cap<>	ACITOR>				C2561 C2562 C2563	1-126-301-11 1-163-263-11 1-163-257-11	ELECT CERAMIC CHIP CERAMIC CHIP	180PF	20% 5% 5%	50V 50V 50V
C2502	1-163-020-00 1-163-020-00	CERAMIC CHIP CERAMIC CHIP	0.0082MI 0.0082MI	10%	50V 50V	C2564 C2565	1-126-301-11 1-126-163-11	ELECT ELECT	1MF 4.7MF	20% 20%	50V 50V
C2503 C2504	1-163-001-11 1-126-163-11 1-163-020-00	CERAMIC CHIP ELECT CERAMIC CHIP	220PF 4.7MF	10% 20%	50V 50V 50V	C2566 C2567 C2568	1-126-163-11 1-126-163-11 1-163-263-11	ELECT ELECT CERAMIC CHIP	4.7MF 4.7MF 330PF	20% 20% 5%	50V 50V 50V
C2507	1-163-020-00 1-163-017-00	CERAMIC CHIP	0.0047M	10% 10%	50V 50V	C2569 C2570	1-163-257-11 1-124-234-00	CERAMIC CHIP ELECT	180PF 22MF	5% 5% 20%	50V 16V
C2509	1-163-020-00 1-163-020-00 1-163-989-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0082MI	10%	50V 50V 25V	C2571 C2572 C2573 C2574	1-126-301-11 1-126-163-11 1-124-234-00	ELECT ELECT ELECT	1MF 4.7MF 22MF	20% 20% 20%	50V 50V 16V
C2512	1-164-004-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP	0.1MF	10 <b>%</b>	25V 25V	C2575	1-126-301-11 1-126-301-11	ELECT	1MF	20%	50V 50V
C2514	1-164-004-11 1-164-004-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	10%	25V 25V 25V	C2576 C2577 C2578	1-126-301-11 1-126-163-11 1-126-163-11	ELECT ELECT ELECT	1MF 4.7MF 4.7MF	20% 20% 20%	50V 50V 50V
C2517	1-164-232-11 1-126-157-11	ELECT	10MF	20%	50¥ 16¥	C2579 C2580	1-126-103-11 1-124-478-11	ELECT ELECT	470MF 100MF	20% 20%	16V 25V
C2518	1-126-163-11	ELECT	4.7MF	20%	50V	L2581	1-163-109-00	CERAMIC CHIP	47PF	5%	50V



F	REF.NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
	C2582 C2583 C2584 C2585 C2586	1-124-477-11 1-126-163-11 1-163-109-00 1-126-163-11 1-163-009-11						1-216-133-00 1-216-081-00 1-216-081-00 1-216-133-00 1-216-089-00		3.3M 22K 22K 3.3M 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	C2588 C2589 C2590 C2591	1-126-163-11 1-126-163-11 1-126-163-11 1-126-163-11 1-124-478-11	ELECT ELECT ELECT ELECT ELECT	4.7MF 4.7MF 4.7MF 4.7MF 100MF	20% 20% 20% 20% 20%		•	1-216-133-00 1-216-089-00 1-216-073-00 1-216-073-00 1-216-129-00		3.3M 47K 10K 10K 2.2M	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
		<010	DE>				R2537 R2539	1-216-077-00 1-216-061-00	NETAL GLAZE NETAL GLAZE	15K 3.3K	57 57	1/10W 1/10W	
	D2501 D2502 D2503	8-719-104-24 8-719-106-88 8-719-106-88	DIODE 1S2835 DIODE RD15M- DIODE RD15M-	-T1 B1 B1			R2540 R2541 R2542	1-216-075-00 1-216-069-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 3.3K 12K 6.8K 22K		1/10W 1/10W 1/10W	
	D2504	8-719-106-88 <ic></ic>	DIODE RD15M-	B1			R2544 R2545 R2546	1-216-081-00 1-216-073-00 1-216-048-00 1-216-133-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 10K 910 3.3M 3.3M	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	I C2501	8-759-031-31	IC MC33174M				R2547	1-216-133-00	METAL GLAZE	3. 3M 10K		1/10W	
	I C2502 I C2503 I C2504 I C2505	8-752-050-75 8-759-604-70 8-759-031-31 8-759-604-70	IC M51523AL IC MC33174M IC M51523AL				R2549 R2550 R2551 R2552	1-216-065-00 1-216-088-00 1-216-088-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 43K 43K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	I C2506 I C2507 I C2508	<pre>&lt;010 8-719-104-24 8-719-106-88 8-719-106-88 8-719-106-88 </pre> <pre></pre> <pre></pre> <pre></pre> <pre>8-759-031-31 8-759-031-31 8-759-604-70 8-759-031-31 8-759-604-70 8-759-038-68 8-759-038-68 8-759-038-68</pre>	IC UPD4052BG IC MC33172ML IC MC33172ML				R2553 R2554 R2555	1-216-078-00 1-216-082-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	16K 24K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
		<ja€< td=""><td>:K&gt;</td><td></td><td></td><td></td><td>RZ551</td><td>1-210-085-00</td><td>METAL GLAZE</td><td>1K 33K</td><td></td><td>1/10W 1/10W</td><td></td></ja€<>	:K>				RZ551	1-210-085-00	METAL GLAZE	1K 33K		1/10W 1/10W	
	J2501	*1-573-966-11	PIN, CONNECT	OR (PC BO	ARD) 36P		R2558 R2559	1-216-088-00 1-216-091-00	METAL GLAZE METAL GLAZE	43K 56K 180K 100K 47K	5% 5%	1/10W 1/10W	ŕ
		<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td>R2560 R2561 R2562</td><td>1-216-103-00 1-216-097-00 1-216-089-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>180K 100K 47K</td><td>5% 5%</td><td>1/10W 1/10W 1/10W</td><td></td></tra<>	NSISTOR>				R2560 R2561 R2562	1-216-103-00 1-216-097-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	180K 100K 47K	5% 5%	1/10W 1/10W 1/10W	
	Q2501	8-729-230-49	TRANSISTOR 2	SC2712-YG			P2563	1-216-088-00	METAL GLAZE	43K		1/10W	
			SISTOR>				R2564 R2565	1-216-088-00 1-216-103-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	43K 180K 10K	5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W	
	R2501 R2502	1-216-079-00 1-216-097-00 1-216-091-00 1-216-109-00	METAL GLAZE METAL GLAZE	18K 5 100K 5	% 1/1 % 1/1	OM OM	R2567	1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K		1/10W	
	R2503 R2504 R2505	1-216-091-00 1-216-109-00 1-216-109-00	METAL GLAZE METAL GLAZE METAL GLAZE	56K 5 330K 5 330K 5	% 1/1 % 1/1	OW OW	R2568 R2569 R2570	1-216-049-00 1-216-097-00 1-216-091-00 1-216-078-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 100K 56K 16K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	R2506 R2507	1-216-101-00 1-216-091-00	METAL GLAZE METAL GLAZE	150K 5 56K 5	% 1/1 % 1/1		R2572	1-216-049-00	METAL GLAZE	1K	5% 5%	1/10W	
	R2508 R2509 R2510	1-216-079-00 1-216-130-11 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	150K 5 56K 5 18K 5 2.4M 5 100K 5	7 1/1 7 1/1 7 1/1 7 1/1	.OW	R2573 R2574 R2575 R2576	1-216-082-00 1-216-085-00 1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE	24K 33K 47K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	R2511 R2512	1-216-085-00 1-216-103-00	METAL GLAZE METAL GLAZE	33K 5	X 1/1 X 1/1	LOW	R2577	1-216-081-00	METAL GLAZE	22K		1/10W	
	R2513 R2514 R2515		METAL GLAZE METAL GLAZE METAL GLAZE	33K 5 180K 5 33K 5 180K 5 10K 5		LOW LOW	R2578 R2579 R2580 R2581		METAL GLAZE METAL GLAZE METAL GLAZE	22K 1K 22K 22K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	R2516 R2517 R2518	1-216-065-00 1-216-133-00 1-216-072-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5 3.3M 5 9.1K 5	1/1 2 1/1 2 1/1 2 1/1 2 1/1	LOW	R2582 R2583	1-216-083-00 1-216-083-00		27K 27K		1/10W 1/10W	
	R2519 R2520	1-216-133-00 1-216-133-00	METAL GLAZE METAL GLAZE			LOW LOW	R2584 R2585 R2586	1-216-081-00 1-216-073-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 10K 33K	552255555	1/10W 1/10W 1/10W	
	R2521 R2522 R2523	1-216-133-00 1-216-061-00 1-216-077-00	METAL GLAZE	3.3M 5	5% 1/1 5% 1/1 5% 1/1	LOW	R2587			33K 33K		1/10W 1/10W	
	R2524 R2526	1-216-077-00 1-216-129-00 1-216-133-00	METAL GLAZE	15K 2.2H 3.3M	5% 1/1 5% 1/1	IOW IOW LOW	R2589 R2590	1-216-081-00	METAL GLAZE METAL GLAZE	22K 18K 10K	5% 5% 5%	1/10W 1/10W 1/10W	

<b>X2</b>	<b>Y2</b>

REF. NO	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK	
R2593 R2594	1-216-073-00 1-216-079-00 1-216-073-00	METAL GLAZE METAL GLAZE	10K 5% 18K 5% 10K 5%	1/10W 1/10W 1/10W		C458 C459	1-126-101-11 1-126-101-11	ELECT	100MF 100MF	20% 20%	16V 16V	
	1-216-089-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 1K 5%	1/10W 1/10W 1/10W		C460 C461 C462	1-126-101-11 1-124-499-11 1-124-499-11	ELECT ELEC <b>T</b>	100MF 1MF 1MF	20% 20% 20%	16V 50V 50V	
R2598 R2599	1-216-089-00 1-216-073-00 1-216-049-00	METAL GLAZE	1K 5% 47K 5% 10K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W		C465 C466 C467	1-130-485-00 1-130-485-00 1-136-169-00	MYLAR MYLAR FILM	0.015MF 0.015MF 0.22MF	5% 5%	50V 50V 50V	
R2601 R2602	1-216-089-00 1-216-073-00	METAL GLAZE	47K 5% 10K 5%	1/10W 1/10W		C468 C469 C470	1-136-169-00 1-126-157-11 1-126-157-11	FILM ELECT ELECT	0.22MF 10MF 10MF	5% 5% 20% 20%	50V 16V 16V	
R2604 R2605 R2606 R2610	1-216-089-00 1-216-049-00 1-216-049-00 1-216-125-00	METAL GLAZE	47K 5% 1K 5% 1K 5% 1.5M 5%	1/10W 1/10W 1/10W 1/10W		C471 C472 C473	1-124-589-11 1-164-232-11 1-164-232-11		47MF	20% 10% 10%	16V 50V 50V	
R2611 R2612	1-216-125-00 1-216-125-00	METAL GLAZE METAL GLAZE		1/10W 1/10W		C474 C475 C476	1-124-234-00 1-164-232-11 1-124-234-00	ELECT CERAMIC CHIP ELECT	22MF	20% 10% 20%	16V 50V 16V	
R2613 R2614 R2615	1-216-125-00 1-216-125-00 1-216-125-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5M 5% 1.5M 5% 1.5M 5% 1.5M 5% 1.5M 5%	1/10W 1/10W 1/10W		C477 C478 C479	1-164-232-11 1-124-478-11 1-126-163-11	CERAMIC CHIP	0.01MF 100MF 4.7MF	10% 20% 20%	50V 25V 50V	
R2616 R2617 R2618	1-216-125-00 1-216-125-00 1-216-061-00	METAL GLAZE METAL GLAZE	1.5M 5% 1.5M 5% 3.3K 5% 1K 5%	1/10W 1/10W 1/10W		C480 C481	1-124-768-11 1-124-768-11	ELECT	4.7MF 4.7MF	20% 20%	50V 50V 50V	
	1-216-049-00			1/10W	*****	1 4203	1-126-163-11 1-163-113-00 1-163-113-00 1-163-038-00	CERAMIC CHIP	4.7MF 68PF 68PF	20% 5% 5%	50V 50V 50V	
	*A-1394-443-A	Y2 BOARD, CO				C485 C487	1-164-232-11	CERAMIC CHIP	0.01MF	10%	25V 50V	
						C488	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
		ACITOR>					<010	DE>				
C401 C424 C425 C426 C427	1-124-234-00 1-126-301-11 1-126-301-11 1-126-301-11 1-124-465-00	ELECT ELECT ELECT ELECT ELECT	22MF 1MF 1MF 1MF 0.47MF	20% 20%	16V 50V 50V 50V 50V	D405 D406 D407 D408 D409	8-719-107-13 8-719-107-13 8-719-107-13 8-719-105-83 8-719-981-50	DIODE RD18M-I	B1 R1			
C428 C429 C430 C431 C432	1-126-163-11 1-124-478-11 1-124-261-00 1-126-301-11 1-126-301-11	ELECT ELECT ELECT	4.7MF 100MF 10MF 1MF 1MF	20% 20% 20%	50V 25V 50V 50V 50V	D410 D413	8-719-981-50 8-719-158-19 8-719-158-55 8-719-158-55	DIODE RB100A DIODE RD6.2SI DIODE RD15SB				
C433 C434	1-131-347-00 1-126-301-11	TANTALUM ELECT	1MF		16V 50V		<10>					
C435 C436 C437	1-130-309-00 1-126-301-11 1-130-487-00	FILM ELECT MYLAR	0.033MF 1MF 0.022MF	5% 20%	100V 50V 50V	1C404	8-759-996-43 8-759-067-24	IC RC4558PS IC 24C04AI/P				
C438 C439 C440	1-126-301-11 1-124-034-51 1-126-301-11	ELECT ELECT ELECT	1MF 33MF 1MF	20% 20%	50V 16V 50V	IC407	8-759-245-75 8-752-057-18	IC CXA1264AS IC TA8184P IC CXA1315P				
C441 C442	1-126-301-11 1-124-261-00	BLECT BLECT	1MF 10MF	207 207	50V 50V		<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td></tra<>	NSISTOR>				
C443 C446 C447 C448 C449	1-124-234-00 1-126-301-11	ELECT ELECT ELECT FILM CERAMIC CHIP	47MF 22MF 1MF 0.27MF 0.001MF	20% 20% 5%	16V 16V 50V 50V 50V	Q404 Q405 Q409 Q410	8-729-216-22 8-729-216-22 8-729-422-27 8-729-422-27	TRANSISTOR 2:	5A1162-G 5D601A-Q			
C450 C451	1-130-475-00 1-124-261-00	MYLAR ELECT	0.0022MF	5% 20%	50V 50V	1 6 6	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
C451 C452 C453 C454	1-124-261-00	ELECT ELECT MYLAR TANTALUM	10MF 10MF 0.0022MF 3.3MF	20%	50V 50V 50V 16V	R447 R453 R464	1-216-081-00	METAL GLAZE METAL GLAZE	220 5% 220 5% 22K 5% 22K 5%	1/10W 1/10W 1/10W		
C455 C456	1-131-347-00 1-136-171-00		1MF 0.33MF		16V 50V	R465 R466	1-216-081-00 1-216-025-00	METAL GLAZE METAL GLAZE	22K 5% 100 5%	1/10W 1/10W		
C457	1-136-175-00		0.68MF	5%	50V	R467	1-216-033-00	METAL GLAZE	220 5%	1/10W		

## KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

REF.NQ.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R468 R469 R470 R471 R472	1-216-033-00 1-216-055-00 1-216-033-00 1-216-033-00 1-216-686-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	220 1.8K 220 220 30K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W			************** *A-1316-161-A		PLETE	*****	*****
R473 R474 R475 R476 R477	1-216-295-00 1-216-295-00 1-216-055-00 1-216-669-11 1-216-675-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP	0 0 1.8K 5.6K 10K	5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		,		ACITOR>	), P, SW (+)	20%	125V
R478 R479 R480 R481 R482	1-216-089-00 1-216-669-11 1-216-675-11 1-216-089-00 1-216-089-00	METAL CHIP METAL CHIP	47K 5.6K 10K 47K 47K	0.50%	1/10W 1/10W 1/10W 1/10W 1/10W		C603 A C604 A	1-136-311-51 1-162-599-81 1-162-599-81 1-104-346-11 1-162-599-12 1-130-851-00	CERAMIC ELECT CERAMIC	0.0047MF 0.0047MF 1000MF 0.0047MF 0.082MF	20% 20%	400V 400V 200V 400V 100V
R483 R485 R486 R488 R494	1-216-089-00 1-216-073-00 1-216-073-00 1-216-295-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 10K 10K 0 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C606 C607 C608 C609	1-130-851-00 1-130-851-00 1-130-851-00	FILM FILM FILM	0.082MF 0.082MF 0.082MF	50% 50% 50% 50% 50% 50%	100V 100V 100V 100V
R495 R496 R497 R498	1-216-025-00 1-216-025-00 1-216-033-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100 220 100		1/10W 1/10W 1/10W 1/10W		C611 C612 C613 C614	1-137-588-11 1-137-592-11 1-164-625-11 1-164-625-11 1-164-625-11	CERAMIC CERAMIC CERAMIC	0.01MF 680PF 680PF 680PF	5% 10% 10% 10%	800V 500V 500V 500V
R500 R501 R502	1-216-025-00 1-216-081-00 1-216-669-11 1-216-033-00	METAL GLAZE METAL CHIP METAL GLAZE	220	5% 0.50% 5%	1/10W		C615 C616 C618 C619	1-164-625-11 1-124-443-00 1-164-735-11 1-164-735-11 5-161-741-51	ELECT CAP, CERAMIC CAP, CERAMIC	680PF 100MF 1500PF 1500PF 0.001MF	10% 20%	500V 10V
R503 R504	1-216-663-11 1-216-675-11	METAL CHIP		0.50%	1/10W 1/10W		(621 A	1 161 741-51 1-162-599-12	CERANTO CERANTO	0.001MF 0.0047MF	102 20%	400V 400V
R507 R509 R510 R512	1-216-295-00 1-216-065-00 1-216-061-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 4.7K 3.3K 4.7K 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C623 C624 C625	1-137-493-11 1-126-301-11 1-126-162-11	FILM ELECT ELECT	0.0047MF 1MF 3.3MF	5% 20% 20%	630V 50V 50V
R513 R515 R517 R518	1-216-667-11 1-216-295-00 1-216-025-00 1-216-089-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	0 100 47K	5%	1/10W 1/10W 1/10W 1/10W 1/10W		C626 C651 C652 C653 C654	1-130-480-00 1-104-702-11 1-124-556-11 1-124-913-11 1-124-607-11	ELECT ELECT	0.0056MF 470MF 2200MF 470MF 2200MF	20% 20% 20% 20%	180V 16V 50V 50V
R519 R521	1-216-295-00 1-216-061-00	METAL GLAZE	0 3.3K		1/10W 1/10W		C655 C656 C657	1-162-117-00 1-124-119-00 1-106-351-00	ELECT	100PF 330MF 0.0022MF	10% 20%	500V 16V 200V
R522 R523 R524 R525	1-216-033-00 1-216-033-00 1-216-065-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 4.7K 5.6K	5% 5% 5%	1/10W 1/10W 1/10W		C658 C659	1-126-157-11 1-130-485-00	ELECT	10MF 0.015MF	20% 5%	16V 50V
R526 R527 R528 R529	1-216-049-00 1-218-754-11 1-216-691-11 1-216-097-00	METAL GLAZE METAL CHIP METAL CHIP METAL GLAZE	1K 120K 47K 100K	5% 0.50% 0.50%	1/10W 1/10W 1/10W 1/10W	! !	C661 C662 C663 C666 C667	1-124-484-11 1-124-484-11 1-126-104-11 1-126-101-11 1-124-443-00	ELECT ELECT ELECT ELECT ELECT	220MF 220MF 470MF 100MF 100MF	20% 20% 20% 20% 20%	35V 35V 35V 16V 10V
R531 R532	1-216-097-00 1-216-097-00	METAL GLAZE	100K 100K	5%	1/10W 1/10W		C668 C669	1-124-638-11 1-162-318-11	ELECT CERAMIC	22MF 0.001MF	20% 10%	6.3V 500V
R533 R535 R536 R537 R538	1-216-097-00 1-216-049-00 1-216-065-00 1-216-067-00 1-218-754-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	100K 1K 4.7K 5.6K 120K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C670 C672 C677 C678	1-162-318-11 1-124-484-11 1-136-311-51 1-124-360-00	ELECT FILK	0.001MF 220MF 0.47MF	10% 20% 20% 20%	500V 35V 125V
R539 R542	1-216-691-11 1-216-025-00	METAL CHIP METAL GLAZE	47K 100	0.50% 5%	1/10W 1/10W			<di< td=""><td>ODE&gt;</td><td></td><td></td><td></td></di<>	ODE>			
R543 R546 R547	1-216-025-00 1-216-682-11 1-216-681-11	METAL GLAZE METAL CHIP	100 20K 18K	5% 5% 0.50% 0.50%	1/10W 1/10W 1/10W		D601 p	A 8-719-022-99 8-719-510-48	DIODE D6SB60 DIODE D1N200	}		
11741		NNECTOR>		V. 301			D603 D604 D605	8-719-510-48 8-719-510-48 8-719-510-48	DIODE DIN201 DIODE DIN201	}		
Y2-40	1 1-573-966-11		OR (PC	BOARD	36P		1000	0 117 710 40	5.000 SIMEO	-		
			-									

The components identified by Les composants identifies par shading and mark A are critical for safety. Replace only with part number specified.

sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF.NO. PART NO.	DESCRIPTION REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
D606 8-719-911-19 D607 8-719-510-48 D608 8-719-510-48 D609 8-719-510-48 D610 8-719-510-48	DIODE D1N2OR DIODE D1N2OR DIODE D1N2OR	1 C651A 1 C654	<ic> 1 809-524-12 8-719-156-73</ic>	POWER NODULE	DN-44A R PS2501-1LB	A / 2 P P 13	7228
D612 8-719-510-48	DIODE DIN2OR DIODE DIN2OR DIODE RD6.2ES-B2 DIODE S2L2OUF DIODE S2L2OUF	L651 L652 L653 L654	<pre><col 1-410-673-31="" 1-412-526-11="" 1-412-532-11="" 1-412-532-11<="" pre=""/></pre>		12UH 68UH 39UH 39UH		
D655 8-719-510-13	DIODE S2L20UF DIODE S2L20UF DIODE DIOSC4MR DIODE D2S4MF DIODE D1NS4	L655	1-412-532-11 1-412-526-11	INDUCTOR	390H 120H		
D658 8-719-027-22 D659 8-719-027-22 D660 8-719-027-22 D661 8-719-027-22 D663 8-719-510-02	DIODE D3S6M-F DIODE D3S6M-F	Q601 Q602 Q603 Q604 Q605		TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC4664MNP-F SC4664MNP-F SC4664MNP-F		
D667 8-719-911-19	DIODE RD5.1ES-B2 DIODE 1SS119 DIODE 1SS119	Q652 Q653 Q654 Q655 Q656	8-729-119-78 8-729-201-53 8-729-119-78 8-729-119-78	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC2785-HFE SA1015-GR SC2785-HFE SC2785-HFE		
D670 8-719-911-19 D671 8-719-110-31 D672 8-719-911-19	DIODE RD12ES-B2	4000		ISTOR>	3C2183-11FB		
<fus< td=""><td></td><td>R602 A R603 R604</td><td>1-249-388-11 1-205-707-12 1-247-889-00 1-216-443-11 1-216-443-11</td><td>WIREWOUND CARBON METAL OXIDE</td><td>3.9 5% 2.2 5% 270K 5% 56K 5% 56K 5%</td><td>1/4W 10W 1/4W 1W</td><td>F</td></fus<>		R602 A R603 R604	1-249-388-11 1-205-707-12 1-247-889-00 1-216-443-11 1-216-443-11	WIREWOUND CARBON METAL OXIDE	3.9 5% 2.2 5% 270K 5% 56K 5% 56K 5%	1/4W 10W 1/4W 1W	F
1-535-225-F1	FUSE, MICRO (SECONDARY) SA/125V FUSE 6.3A/125V CLIP, FUSE; F601 FUSE 3.15A/250V CLIP, FUSE; F602 RITE BEAD>	R605 R606 R607 R608 R609 R610	1-216-443-11 1-216-443-11 1-216-352-11 1-216-351-00 1-216-351-00	METAL OXIDE METAL OXIDE METAL OXIDE METAL OXIDE METAL OXIDE METAL OXIDE	56K 5% 56K 5% 1.8 5% 1.5 5% 1.5 5%	1 W 1 W 1 W 1 W 1 W 1 W 1 W	4 4 4 4
	FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH INDUCTOR, FERRITE BEAD 1.1UH		1-216-352-11 1-249-377-11	METAL OXIDE CARBON METAL METAL	1.8 5% 0.47 5% 12K 1% 3.3K 1% 100K 5%	1W 1/4W 1/4W 1/4W 1/4W	F
FB656 1-410-397-21 FB659 1-412-911-11 FB660 1-412-911-11 FB661 1-412-911-11 FB662 1-412-911-11	FERRITE BEAD INDUCTOR 1.1UH INDUCTOR, FERRITE BEAD 1.1UH INDUCTOR, FERRITE BEAD 1.1UH INDUCTOR, FERRITE BEAD 1.1UH INDUCTOR, FERRITE BEAD 1.1UH	R616 R617 R618	1-249-417-11 1-249-417-11 1-247-688-11 1-216-343-91 1-202-730-00	CARBON CARBON CARBON METAL OXIDE SOLID	1K 5% 1K 5% 10 5% 0.33 5%	1/4W 1/4W 1/4W 1/2W	F
	INDUCTOR, FERRITE BEAD 1.1UH FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH NECTOR>	R621 R622 A R623 R651 R652	1-249-423-11 1-202-888-91 1-212-956-00 1-249-405-11 1-215-868-00	CARBON SOLID FUSIBLE CARBON METAL OXIDE	3.3K 5% 2.2M 20% 8.2 5% 100 5% 680 5%	1/4W 1/2W 1/2W 1/4W 1W	F F
	PIN, CONNECTOR (PC BOARD) 5P PLUG, CONNECTOR 7P PLUG, CONNECTOR 4P PIN, CONNECTOR (5MM PITCH) 2P PIN, CONNECTOR (5MM PITCH) 3P	R653 R654 R655 R656 R657	1-249-405-11 1-249-399-11 1-249-393-11 1-249-443-11 1-216-357-00	CARBON CARBON CARBON CARBON METAL OXIDE	100 5% 33 5% 10 5% 0.47 5% 4.7 5%	1/4W 1/4W 1/4W 1/4W 1W	+ + +
G-31 A+1-580-843-11	PIN, CONNECTOR (POWER) PIN, CONNECTOR (5MM PITCH) 1P	R658 R659 R660 R661 R662	1-215-408-00 1-249-443-11 1-215-446-00 1-215-418-00 1-249-421-11	MET AL CARBON MET AL MET AL CARBON	300 1% 0.47 5% 11% 1% 750 1% 2.2% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F

## KV-32XBR26/32XBR36 RM-Y112A TDR-IF310/RM-Y113A



Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark 🐧 are critical for safety. Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R663 1-249-410-11 R664 1-215-861-00 R665 1-215-403-00 R666 1-215-421-00 R667 1-215-432-00 R668 1-216-482-11	CARBON METAL OXIDE METAL METAL METAL METAL METAL OXIDE	270 5% 47 5% 180 1% 1K 1% 3K 1%	1/4W 1W 1/4W 1/4W 1/4W	F	C712 C713 C715 C718 C733	1-164-082-11 1-164-082-11 1-102-129-00 1-102-129-00 1-102-074-00	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	560PF 560PF 0.01MF 0.01MF 0.001MF	10% 10% 10% 10% 10%	50V 50V 50V 50V 50V
R669 1-249-421-11 R670 1-249-412-11 R671 1-216-384-11 R672 1-249-443-11 R673 1-249-415-11 R674 1-249-421-11 R675 1-249-377-11 R676 1-249-377-11 R678 1-249-429-11 R678 1-249-428-00 R680 1-216-428-00 R681 1-249-377-11 R682 1-249-443-11 <rel< td=""><td>CARBON CARBON METAL OXIDE CARBON AY&gt;</td><td>1.8K 5% 2.2K 5% 5% 0.39 5% 0.47 5% 680 5% 0.47 5% 10K 5% 180 5% 0.47 5% 0.47 5% 0.47 5%</td><td>1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W</td><td></td><td>D701 D702 D703 D704 D705 D706 D707 D708 D709 D710 D711 D712 D713 D714</td><td><pre><pioi 8-719-901-83="" 8-719-901-83<="" 8-719-911-19="" pre=""></pioi></pre></td><td>DE&gt;  DIODE 1SS119 DIODE 1SS13 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83</td><td></td><td></td><td></td></rel<>	CARBON CARBON METAL OXIDE CARBON AY>	1.8K 5% 2.2K 5% 5% 0.39 5% 0.47 5% 680 5% 0.47 5% 10K 5% 180 5% 0.47 5% 0.47 5% 0.47 5%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W		D701 D702 D703 D704 D705 D706 D707 D708 D709 D710 D711 D712 D713 D714	<pre><pioi 8-719-901-83="" 8-719-901-83<="" 8-719-911-19="" pre=""></pioi></pre>	DE>  DIODE 1SS119 DIODE 1SS13 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83 DIODE 1SS83			
RY6014 1-515-601-11 RY6024 1-515-669-21						<jac< td=""><td>K&gt;</td><td></td><td></td><td></td></jac<>	K>			
<tra< td=""><td>NSFORMER&gt;</td><td></td><td></td><td></td><td>7401 9</td><td>.)=640=()74=15</td><td>SOCKET, PICT</td><td>VAE TUBE</td><td>- LELLA</td><td></td></tra<>	NSFORMER>				7401 9	.)=640=()74=15	SOCKET, PICT	VAE TUBE	- LELLA	
T601 A. 1-424-585-11 T602 A. 1-424-585-11	TRANSFORMER.	LINE FILTER		and the second		<c0i< td=""><td></td><td>47777</td><td></td><td></td></c0i<>		47777		
1603   -450-300-31 1604 A   -450-958-12 1605   -424-663-11	TRANSFORMER.	CONVERTER (	PRTI		L701	1-410-671-31	INDUCTUR	47UH		
				7355	0701		NSISTOR>	CC2611		
THP601A1-800-686-43	i de	************************************			Q701 Q702 Q703 Q704 Q705	8-729-326-11 8-729-119-78 8-729-200-17 8-729-326-11 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-HF SA1091-0 SC2611		
VDR601A1-809-786-11 VDR602A1-809-264-81	VARISTOR	<b>-</b> Y,	*****	2421123	Q706 Q707 Q708 Q709 Q710	8-729-200-17 8-729-200-17 8-729-326-11 8-729-119-78 8-729-255-12	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1091-0 SC2611 SC2785-HF	<b>E</b> .	
	C BOARD, COMP				Q711 Q712 Q714 Q715 Q716	8-729-119-76 8-729-255-12 8-729-200-17 8-729-200-17 8-729-200-17	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2551-0 SA1091-0 SA1091-0	<b>E</b>	
C-2 *1-573-964-11 C-24 *1-564-511-51	PIN, CONNECTO PLUG, CONNECT	OR (PC BOARD	) <b>6</b> P			<re><res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<></re>	ISTOR>			
C-42 *1-691-134-11 <caf 1-162-116-00<="" c701="" td=""><td>PIN, CONNECTO PACITOR&gt; CERANIC</td><td>OR (PC BOARD</td><td>10%</td><td>2KV</td><td>R701 R702 R703 R706 R707</td><td>1-216-398-11 1-202-883-11 1-202-838-00 1-202-838-00 1-202-842-11</td><td>METAL OXIDE SOLID SOLID SOLID SOLID</td><td>100K 2 100K 2</td><td>% 3W 0% 1/2 0% 1/2 0% 1/2 0% 1/2</td><td>(원 ) 단</td></caf>	PIN, CONNECTO PACITOR> CERANIC	OR (PC BOARD	10%	2KV	R701 R702 R703 R706 R707	1-216-398-11 1-202-883-11 1-202-838-00 1-202-838-00 1-202-842-11	METAL OXIDE SOLID SOLID SOLID SOLID	100K 2 100K 2	% 3W 0% 1/2 0% 1/2 0% 1/2 0% 1/2	(원 ) 단
C702 1-137-490-11 C704 1-123-946-00 C705 1-106-375-12 C706 1-106-375-12 C707 1-164-083-11	ELECT Mylar	0.01MF 4.7MF 0.022MF 0.022MF	10% 20%	1KV 250V 200V 200V	R708 R709 R710 R713 R715	1-202-818-00 1-202-818-00 1-202-818-00 1-216-486-00 1-202-549-00	SOLID SOLID SOLID METAL OXIDE SOLID	1K 2 1K 2 8.2K 5	0% 1/2 0% 1/2 0% 1/2 0% 1/2 % 3W	2W 2W F
C708 1-164-083-11 C708 1-164-083-11 C709 1-164-083-11 C710 1-164-082-11 C711 1-124-120-11	CERAMIC CERAMIC CERAMIC	680PF 680PF 560PF 220MF	10% 10% 10% 20%	50V 50V 50V 16V	R716 R720 R723	1-216-486-00 1-216-486-00 1-249-405-11	METAL OXIDE METAL OXIDE CARBON	8.2K 5 8.2K 5 100 5		F F



REF. NO. PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTIO	N -		REMARK
R724 1-249-405-11 R725 1-249-429-11 R726 1-249-408-11 R727 1-249-429-11 R728 1-249-408-11	CARBON CARBON CARBON	100 57 10K 57 180 57 10K 57 180 57	1/4W 1/4W 1/4W 1/4W 1/4W		C916 C917 C918 C920	1-130-471-00 1-130-479-00 1-102-074-00 1-136-946-11	MYLAR MYLAR CERANIC FILM	0.001MF 0.0047MF 0.001MF 0.12MF	5% 5% 10% 5%	50Y 50Y 50Y 200Y
R729 1-249-405-11 R730 1-249-408-11 R731 1-249-409-11 R732 1-249-409-11 R733 1-249-409-11	CARBON CARBON CARBON CARBON	100 52 180 52 220 53 220 53 220 53		F F	C921 C929 C930	1-136-177-00 1-130-471-00 1-130-483-00	MYLAR MYLAR	1MF 0.001MF 0.01MF	5% 5% 5%	50V 50V 50V
R735 1-249-418-11 R737 1-249-418-11 R739 1-249-433-11 R740 1-215-902-11 R741 1-249-417-11	CARBON CARBON CARBON METAL OXIDE	1.2K 52 1.2K 52 22K 52 47K 52 1K 52		ų ų	D801 D802 D803 D804 D805	8-719-913-44 8-719-911-19 8-719-911-19 8-719-911-19 8-719-801-35	DIODE ERA82 DIODE 1SS11 DIODE 1SS11 DIODE 1SS11 THYRISTOR S	9 9 9		
R742 1-249-423-11 R743 1-249-423-11 R744 1-249-423-11 R745 1-249-417-11 R746 1-215-902-11	CARBON CARBON CARBON	3.3K 5% 3.3K 5% 3.3K 5% 1K 5% 47K 5%		1 1 1 1	D806 D807 D808 D809 D810	8-719-980-78 8-719-980-78 8-719-911-19 8-719-911-19 8-719-911-19	DIODE ERA83 DIODE ERA83 DIODE 1SS11 DIODE 1SS11 DIODE 1SS11	-006 - <b>0</b> 06 9		
R747 1-249-429-11 R748 1-216-398-11 R749 1-249-437-11 R750 1-249-409-11 R751 1-249-395-11	METAL OXIDE CARBON	10K 5% 5.6 5% 47K 5% 220 5% 15 5%		F F	D811 D812 D814 D815 D816	8-719-936-84 8-719-911-19 8-719-121-24 8-719-911-19 8-719-911-19	DIODE RGP100 DIODE 1SS119 DIODE RD9.11 DIODE 1SS119 DIODE 1SS119	9 ES-B2 9		
R752 1-249-393-11 R753 1-249-392-11 R754 1-249-418-11 R777 1-249-441-11	CARBON	10 5% 8.2 5% 1.2K 5% 100K 5%	1/4W 1/4W 1/4W 1/4W		D903	8-719-979-85 <con< td=""><td>DIODE EGP200</td><td>i</td><td></td><td></td></con<>	DIODE EGP200	i		
RV701 1-230-641-11	RIABLE RESISTON RES, ADJ, MET RES, ADJ, MET	R> FAL GLAZE	2.2M		D-18 D-20	1-573-299-11 1-573-299-11 1-564-524-11 *1-508-765-00	CONNECTOR, I	BOARD TO BOAF CTOR 9P	D 10P	
************	**********	*******	******	******		<10>				
	D BOARD, COMP ************************************	****	+)		I C803	8-749-920-58 8-752-052-88 8-759-135-80 8-759-987-16	IC UPC358C			
<cai< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td><td></td><td><c01< td=""><td>L&gt;</td><td></td><td></td><td></td></c01<></td></cai<>	PACITOR>					<c01< td=""><td>L&gt;</td><td></td><td></td><td></td></c01<>	L>			
C801 1-124-589-11 C802 1-124-589-11 C804 1-130-483-00 C805 1-136-165-00 C806 1-136-165-00	ELECT ELECT MYLAR FILM FILM	47MF 47MF 0.01MF 0.1MF 0.1MF	20% 20% 5% 5% 5%	16V 16V 50V 50V 50V	L801 L802 L901 L903 L904	1-459-592-11 1-459-941-12 1-410-093-11 1-459-941-12 1-459-148-00	COIL (WITH COIL, CHOKE INDUCTOR COIL, CHOKE COIL	CORE) (PMC) 3.4MMH 33MMH 3.4MMH		
C807 1-124-360-00 C809 1-136-104-00 C810 1-136-177-00 C811 1-162-318-11 C812 1-126-163-11	ELECT FILM FILM CERAMIC ELECT	1000MF 0.16MF 1MF 0.001MF 4.7MF	20% 5% 5% 10% 20%	16V 200V 50V 500V 500V	L905	1-459-592-11 <trai< td=""><td>COIL (WITH O</td><td>CORE) (PMC)</td><td></td><td></td></trai<>	COIL (WITH O	CORE) (PMC)		
C813 1-130-491-00 C814 1-124-261-00 C815 1-124-234-00 C816 1-124-234-00 C817 1-126-163-11	MYLAR ELECT ELECT ELECT	0.047MF 10MF 10MF 22MF 4.7MF	5% 20% 20% 20% 20%	50V 50V 50V 16V 50V	Q802 Q803 Q804 Q805 Q806	8-729-119-76 8-729-119-78 8-729-119-78 8-729-140-97 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-HFE SC2785-HFE SB734-34		
C818 1-124-589-11 C819 1-136-165-00 C820 1-126-103-11 C913 1-124-589-11 C914 1-106-379-12	ELECT FILM ELECT ELECT	47MF 0.1MF 470MF 47MF 0.033MF	20% 5% 20% 20% 10%	16V 50V 16V 16V 100V	Q807 Q808 Q809 Q810 Q811	8-729-140-97 8-729-119-76 8-729-209-15 8-729-140-96 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SA1175-HFE SD2012 SD774-34		
C915 1-126-301-11		1MF	20%	50¥	Q910 <b>Q</b> 911	8-729-119-78 8-729-119-78	TRANSISTOR 2 TRANSISTOR 2			



REF.1	NO. PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION	N			REMARK
Q912 Q913	2 8-729-119-76 3 8-729-011-02	TRANSISTOR 25	SA1175-E				[   		ACITOR>				
472.		ISTOR>					C951 C952 C961	1-102-074-00 1-102-125-00 1-161-830-00	CERAMIC CERAMIC	0.001MF 0.0047M 0.0047M	F ·	10% 10%	50V 50V 500V
R80 R80	2 1-249-409-11	CARBON	220 220	5% 5%	1/4W 1/4W		C962 C963	1-101-880-00 1-123-935-00	ELECT	47PF 33MF		5% 20%	50V 160V
R80 R80 R80	6 1-247-885-00	CARBON CARBON CARBON	220 220 330K 180K 330K	5% 5% 5%	1/4W 1/4W 1/4W		C964 C968 C969	1-126-101-11 1-106-383-00 1-124-799-11	ELECT MYLAR ELECT	100MF 0.047MF 2.2MF		20%	16V 200V 160V
R80	9 1-249-423-11	METAL CARBON			1/4W 1/4W		C970 C971	1-106-391-12	ELECT	0.1MF 10MF		10% 20%	200V 16V 16V
R81 R81 R81	1 1-249-434-11	CARBON CARBON	47K 3.3K 470 27K 56K	5% 5%	1/4W 1/4W 1/4W		C972 C973 C975	1-126-541-11 1-106-383-00 1-126-101-11 1-126-157-11	MYLAR ELECT	330MF 0.047MF 100MF 10MF		20% 20% 20%	200V 16V 16V
R81 R81 R81	5 1-249-427-11	CARBON	1K 6.8K 4.7K 3.3K 1K	5% 5%	1/4W 1/4W 1/4W		C976 C977	1-130-471-00	CERAMIC	33PF		5%	50V 50V
R81 R81	7 1-249-423-11	CARBON CARBON	3.3K 1K	5% 5%	1/4W 1/4W		C978 C979 C980	1-130-471-00 1-130-471-00 1-124-915-11	MYLAR ELECT	0.001MF 0.001MF 10MF		5% 5% 20%	50V 16V
R81 R82 R82	0 1-249-417-11	CARBON CARBON METAL OXIDE	18K 1K 6.8	5% 5% 5% 5%	1/4W 1/4W 2W	F		<010	DE>				
R82 R82	2 1-249-423-11	CARBON CARBON	3.3K 1K		1/4W	F	D961 D963 D964	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 18811	9 9			
R82 R82 R82	6 1-249-404-00	CARBON	10 82 10 <b>K</b> 100K 560	5% 5% 5%	1W 1/4W 1W	F F	D965 D966	8-719-911-19 8-719-911-19	DIODE 18811 DIODE 18811	9 9			
R82 R82	8 1-249-441-11	CARBON CARBON			1/4W 1/4W	•	D967 D968	8-719-110-88 8-719-110-88	DIODE RD39E DIODE RD39E	S-B2 S-B2	•		
R83 R83 R83	1 1-249-426-11 2 1-215-887-00	CARBON METAL OXIDE	330 5.6K 150 2.2K 56K	5% 5% 5%	1/4W 1/4W 2W	F		<c0i< td=""><td>Ĺ&gt;</td><td></td><td></td><td></td><td></td></c0i<>	Ĺ>				
R83 R83	3 1-249-421-11 4 1-249-438-11	CARBON CARBON	2.2K 56K	5% 5%	1/4W 1/4W		L962	1-408-416-00	INDUCTOR	39UH			
R83 R83 R83	6 1-249-435-11 7 1-249-435-11	CARBON	10 33K 33K	5% 5% 5% 5%	1/4W 1/4W 1/4W		0956		NSISTOR>	2SC2785-F	IFE		
R83 R83	8 1-216-359-00 1-249-410-11	METAL OXIDE CARBON	6.8 270		1W 1/4W	F	0956 0961 0962	8-729-119-78 8-729-119-78 8-729-119-76 8-729-208-39	TRANSISTOR TRANSISTOR TRANSISTOR	2SC2785-1 2SA1175-1 2SA1306A-	ife ife -Y		
R84 R84 R84	1 1-249-437-11	CARBON CARBON CARBON	10K 47K 10K	5% 5% 5%	1/4W 1/4W 1/4W		Q963 Q964 Q965	8-729-208-39 8-729-119-78 8-729-017-06	TRANSISTOR	2SC2785-I	łře		
R84 R92	3 1-249-421-11	CARBON	2.2K 1.5K	5% 5%	1/4W 1/4W		0966 0967	8-729-119-78 8-729-142-86	TRANSISTOR	2SC2785-I	HFE		
R92 R92 R93	29 1-249-429-11 30 1-249-434-11	CARBON CARBON	2.2K 10K 27K	5% 5% 5% 5%	1/4W 1/4W 1/4W				SISTOR>				
R93 R93	32 1-249-423-11	CARBON	2.2K 3.3K		1/4W 1/4W		R951 R952 R953	1-249-434-11 1-249-423-11 1-249-423-11	CARBON CARBON CARBON	27K 3.3K 3.3K	5% 5% 5%	1/4W 1/4W 1/4W	
R93 R93 R93	34 1-249-441-11 35 1-249-429-11	CARBON CARBON	2.2K 100K 10K	5% 5% 5% 5%	1/4W 1/4W 1/4W		R954 R955	1-247-903-00 1-249-421-11	CARBON CARBON	1M 2.2K	5% 5% 5%	1/4W 1/4W	
R93 R93	37 1-249-421-11	CARBON	10K 2.2K		1/4W 1/4W		R962 R963 R964	1-249-409-11 1-249-419-11 1-247-734-11	CARBON CARBON	220 1.5K 39	5% 5% 5% 5% 5%	1/4W 1/4W 1/2W	F
R93 R93 R94	39 1-249-405-11 10 1-249-405-11	CARBON CARBON	100 100 100	5% 5% 5% 5%	1/4W 1/4W 1/4W	F F	R965 R966	1-249-414-11 1-249-418-11	CARBON	560 1.2K		1/4W 1/4W	f
R94 R94	12 1-215-892-11	METAL OXIDE	100 1K		1/4W 2W	F	R968 R969 R970	1-249-418-11 1-249-384-11 1-249-435-11	CARBON	1.2K 1.8 33K	5% 5% 5%	1/4W 1/4W 1/4W	F
***	**********	*********	*****	*****	*****	*******	1						

\*A-1342-223-A V BOARD, COMPLETE

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

V HS1 HS2 U
-------------

REF.NO. PART NO. DESCRIPTION			REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
R972 1-249-432-11 CARBON R974 1-216-476-11 METAL OXIDE R975 1-249-417-11 CARBON R976 1-249-432-11 CARBON R977 1-249-438-11 CARBON	18K 5% 180 5% 1K 5% 18K 5% 56K 5%	1/4W 3W 1/4W 1/4W 1/4W	F	\$1607A. 1-571-532-23 **********************************	****************	110%. 1124 247
R978 1-249-430-11 CARBON R979 1-249-414-11 CARBON R980 1-249-420-11 CARBON R981 1-249-412-11 CARBON R982 1-249-384-11 CARBON R983 1-249-384-11 CARBON R984 1-249-405-11 CARBON R985 1-249-400-11 CARBON R986 1-249-435-11 CARBON R987 1-249-428-11 CARBON R988 1-249-428-11 CARBON R989 1-249-413-11 CARBON R989 1-249-413-11 CARBON R990 1-216-451-11 METAL OXIDE R991 1-249-409-11 CARBON	12K 5% 560 5% 1.8K 5% 390 5% 1.8 5% 100K 5% 100 5% 39 5% 33K 5% 1.2K 5% 470 5% 120 5% 220 5%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W 1/4W		<pre></pre>	DIODE RD9. 1EW DIODE RD9. 1EW DIODE RD9. 1EW NECTOR> PLUG, CONNECTOR 10P PLUG, CONNECTOR 3P	
<pre><connector></connector></pre>				]	JACK BLOCK, PIN (L TYPE	
V-20 *1-564-512-11 PLUG, CONNECT  ***********************************		******	*******		U BOARD, COMPLETE (KV-3	
(CADACITION)				<cap.< td=""><td>ACITOR&gt;</td><td></td></cap.<>	ACITOR>	
	47MF 47MF	20% 20%	16V 16V	C1004 1-102-125-00 C1005 1-126-301-11 C1006 1-164-096-11 C1007 1-124-598-11 C1008 1-124-598-11	CERÁMIC 0.0047MF ELECT 1MF CERAMIC 0.01MF ELECT 22MF ELECT 22MF	10% 50V 20% 50V 50V 20% 25V 20% 25V
<pre></pre>				C1010 1-124-465-00 C1011 1-124-465-00 C1012 1-124-465-00	ELECT 0.47MF ELECT 0.47MF ELECT 0.47MF CERAMIC 0.0047MF	20% 50V 20% 50V 20% 50V 10% 50V 20% 50V
<pre><connector> HS1-37*1-564-514-11 PLUG, CONNECT <ic></ic></connector></pre>	OR 11P			C1016 1-126-163-11 C1018 1-126-301-11 C1020 1-124-242-00 C1021 1-124-465-00	ELECT 4.7MF ELECT 1MF ELECT 33MF	20% 50V 20% 50V 20% 25V 20% 50V 20% 25V
IC1601 8-746-185-11 IC SBX1618-51 <resistor> R1601 1-249-405-11 CARBON</resistor>		1/4W		C1023 1-126-163-11 C1024 1-126-163-11 C1026 1-164-048-11	ELECT 4.7MF (KV-	20% 50V -32%BR36(US/CND)) 20% 50V -32%BR36(US/CND)) 5% 50V
R1602 1-249-407-11 CARBON R1604 1-249-419-11 CARBON R1605 1-249-421-11 CARBON R1606 1-249-425-11 CARBON	150 5% 1.5K 5% 2.2K 5% 4.7K 5%	1/4W 1/4W 1/4W 1/4W		C1028 1-124-242-00 C1029 1-124-282-00 C1030 1-124-478-11	CERAMIC         12PF           ELECT         33MF           ELECT         22MF           ELECT         100MF           CERAMIC         33PF	5% 50V 20% 25V 20% 16V 20% 25V 5% 50V
R1607 1-249-430-11 CARBON	12K 5%	1/4W			ELECT 22MF ELECT 22MF ELECT 22MF ELECT 22MF ELECT 100MF	20% 25V 20% 16V 20% 16V 20% 16V 20% 25V
\$1602 1-571-532-21 SWITCH, TACTI \$1603 1-571-532-21 SWITCH, TACTI \$1604 1-571-532-21 SWITCH, TACTI \$1605 1-571-532-21 SWITCH, TACTI \$1606 1-571-532-21 SWITCH, TACTI	L L			C1047 1-124-465-00 C1048 1-126-301-11	ELECT 0.47MF	20% 25V -32XBR36(US/CND)) 20% 50V 20% 50V 20% 25V



 7	DADE NO	DECCRIPTION		DEMADY	i des nu	DADT NO	nggcriptio	IN			REMARK
	PART NO.			REMARK 	MET.RU.		DESCRIPTIO	-			
C1050 C1051 C1054	1-124-242-00 1-124-465-00 1-126-163-11	ELECT (ELECT (	33MF 20% (KY-32XBR36 (U ). 47MF 20% 1. 7MF 20% (KY-32XBR36 (U	25V S/CND)) 50V 50V	Q1016 Q1017 Q1018 Q1019 Q1020	8-729-119-76 8-729-119-76 8-729-119-78 8-729-119-76 8-729-119-76	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SA1175-F 2SA1175-F 2SC2785-F 2SA1175-F 2SA1175-F	FE FE FE FE		
C1055 C1056 C1057 C1058	1-124-589-11 1-124-499-11 1-124-768-11 1-126-163-11	ELECT ELECT ELECT ELECT ELECT	(KV-32XBR36 (U 17NF 20% : 1MF 20% 1.7MF 20% 1.7MF 20% (KV-32XBR36 (U	16V 50V 50V 50V	Q1021 Q1022 Q1023 Q1025 Q1029	8-729-119-76 8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-76	TRANSISTOR	2SC2785-I	FE		
C1059 C1060 C1061 C1062	1-124-499-11 1-124-499-11 1-124-499-11 1-102-129-00	ELECT ELECT ELECT CERAMIC	(KV-32XBR36 (U IMF 20% IMF 20% IMF 20% 0.01MF 10% 4.7MF 20%	50V 50V 50V 50V 50V	Q1030 Q1031 Q1032 Q1033 Q1034	8-729-119-78 8-729-119-78 8-729-119-76 8-729-119-76 8-729-119-76	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC2785-H 2SC2785-H 2SA1175-H 2SA1175-H 2SA1175-H	ife ife ife ife		
C1066	1-124-708-11	ELECT	100MF 20%	16V		<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
C1070 C1110 C1111	1-126-103-11 1-124-768-11 1-124-768-11	ELECT ELECT	100MF 20% 4770MF 20% 4.7MF 20% (KV-32XBR36(U 4.7MF 20% (KV-32XBR36(U	16V 50V IS/CND}) 50V IS/CND)}	R1011 R1012 R1013 R1014 R1015	1-249-435-11 1-249-434-11 1-249-417-11 1-249-441-11 1-215-437-00	CARBON CARBON CARBON CARBON METAL	33K 27K 1K 100K 4.7K	51 57 51 57 17	1/4W 1/4W 1/4W 1/4W 1/4W	
	<fil< td=""><td>TER BLOCK&gt;</td><td></td><td></td><td>R1016</td><td>1-249-441-11</td><td>CARBON</td><td>100K</td><td>5%</td><td>1/40</td><td></td></fil<>	TER BLOCK>			R1016	1-249-441-11	CARBON	100K	5%	1/40	
CM1002	1-466-162-31	BLOCK, COM FI	LTER (CFB-4)		R1017 R1018 R1019 R1023	1-249-405-11 1-249-427-11 1-249-427-11 1-249-405-11	CARBON CARBON CARBON CARBON	100K 100 6.8K 6.8K 100	5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
D1007	<diu< td=""><td>DES</td><td>0.2</td><td></td><td>R1026</td><td>1-215-437-00</td><td>METAL</td><td>4.7K</td><td>1%</td><td>1/4W 1/4W</td><td></td></diu<>	DES	0.2		R1026	1-215-437-00	METAL	4.7K	1%	1/4W 1/4W	
D1005 D1009 D1010 D1011 D1012	8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13ES- DIODE RD13ES- DIODE RD13ES- DIODE RD13ES- DIODE RD13ES-	B2 B2 B2 B2 B2		R1029 R1030 R1032	1-249-435-11 1-249-417-11 1-249-417-11	CARBON CARBON CARBON	33K 1K 1K	55%	1/4W 1/4W 1/4W	
D1013 D1014 D1017	8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13ES- DIODE RD13ES- DIODE RD13ES-	B2 B2		R1033 R1034 R1035	1-249-393-11 1-249-417-11 1-249-427-11	CARBON CARBON	1K 6.8K	5% 5% (KV-32)	1/4W 1 1/4W 1/4W KBR36(U: 1/4W	? S/CND))
D1018 D1019	8-719-110-36 8-719-110-36	DIODE RD13ES- DIODE RD13ES-	B2 B2		R1037	1-249-440-11	CARBON	82K	5%		
D1020 D1021 D1022 D1023	8-719-109-66 8-719-109-66 8-719-109-66 8-719-109-66	DIODE RD3.3ES DIODE RD3.3ES DIODE RD3.3ES DIODE RD3.3ES	B2 B2 -B2 -B2 -B2 -B2 (KV-32XBR36(US)	/CND))	R1038 R1040 R1041	1-249-440-11 1-249-427-11 1-249-441-11	CARBON CARBON CARBON	82K 6.8K 100K	5% 5% (KV-32 5%	1/4W 1/4W XBR36(U 1/4W	S/CND))
	8-719-911-19 8-719-911-19				į	1-249-441-11			.5%	1/4W	3/ (111/)
D1027	8-719-911-19	DIODE 188119			R1043	1-249-417-11	CARBON	1K	(KŸ-32 5% 5% 5%	XBR36 (U) 1/4W	S/CND))
	<ic></ic>				R1048	1-249-413-11 1-249-405-11	CARBON CARBON	470 100	5%	1/4W 1/4W	
EC1010	8-752-056-50 8-759-145-57 8-759-145-57	IC UPC4557C (	KV-32XBR36(US/CND)	<b>)</b>	R1050 R1051 R1052 R1054 R1055	1-249-405-11 1-249-417-11 1-249-413-11 1-249-405-11 1-249-413-11	CARBON CARBON CARBON CARBON CARBON	100 1K 470 100 470	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
	<c01< td=""><td>L&gt;</td><td></td><td></td><td>R1056</td><td>1-249-405-11</td><td>CARBON</td><td>100</td><td>5% 5%</td><td>1/4W</td><td></td></c01<>	L>			R1056	1-249-405-11	CARBON	100	5% 5%	1/4W	
L1001 L1002	1-408-422-00 1-408-422-00	INDUCTOR	120UH 120UH		R1057 R1059 R1061 R1062	1-249-441-11 1-249-405-11 1-249-409-11 1-249-441-11	CARBON CARBON CARBON CARBON	100K 100 220 100K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
01000		NSISTOR>	COZOC HEE		R1063	1-249-409-11	CARBON METAL	220 4.7K	5% 1% 1%	1/4W 1/4W	
Q1010 Q1012	8-729-119-78 8-729-119-78 8-729-119-78 8-729-119-78	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	6C2785-HFE 6C2785-HFE (XV-32XBR36()			1-215-437-00 1-215-437-00 1-215-437-00	METAL METAL METAL	4.7K 4.7K	1%	1/4W 1/4W 1/4W	
			/ OCADASC=1A/	ob/ GRU//	1						



1-215-437-00   RETAL   4.7K   IX   1/4W   1-16   1-56-513-11   PLUS. CONNECTOR 10P   1-17   1-249-413-11   CARBON   15K   5X   1/4W   1-23   1-56-59-11   PLUS. CONNECTOR 10P   1-17   1-249-413-11   CARBON   15K   5X   1/4W   1-23   1-56-59-11   PLUS. CONNECTOR 10P   1-17   1-249-413-11   CARBON   1-2K   5X   1/4W   1-23   1-56-59-11   PLUS. CONNECTOR 10P   1-249-413-11   CARBON   1-2K   5X   1/4W   1-23   1-56-59-11   PLUS. CONNECTOR 10P   1-249-413-11   CARBON   1-2K   5X   1/4W   1-23   1-56-59-11   PLUS. CONNECTOR 10P   1-249-413-11   CARBON   100   5X   1/4W   1-164-676-10   PLUS. CONNECTOR 10P   1-249-413-11   CARBON   100   5X   1/4W   1115   1-249-409-11   CARBON   100   5X   1/4W   1115   1	REF. NO	. PART NO.	DESCRIPTION			REMARK	REF.NO	. PART NO.	DESCRIPTION	N			REMA	ARK
1-29 -441-   CABRON   15K   5X   L/W   1-29 -451-   CABRON   12K	R1060	1-215-437-00	METAI	A 7V	19	1/49	11_16	-1 ECA E13 11	DI IIC CONVE	-				
1249-431-11   CARBON   15K   51			•				U-19	<b>*1-564-509-11</b>	PLUG, CONNE	CTOR 6P		E) 30	D	
RITTO   1-249-440-5-11   CABBON   1.24   57	R1071 R1073	1-249-431-11 1-249-431-11	CARBON CARBON	15K	57 57	1/4W	1					-	Γ	
1-249-405-11   CABBON   100   5\( \text{St} \)   1/4\( \text{St} \)		1-249-418-11	CARBON	1.2K 1.2K	5% 5%		U-47 U-48	*1-564-506-11 1-508-784-00	PLUG, CONNECT	CTOR 3P COR (5MM				
## A-1373-414-A UT BOARD, COMPLETE ## A-1373-414-A				100	5 <u>x</u>		i		PLUG, CONNEC	CTOR 2P				
	R1081	1-215-421-00	METAL	1K	17	1/4W	*****				*****	*****	*****	***
R1099   1-249-405-11   CABBON   100   5\tau   1/4\tau   101   1249-405-11   CABBON   470   5\tau   1/4\tau   101   1249-405-11   CABBON   108   5\tau   1/4\tau   101   1249-405-11   CABBON   100   5\tau   1/4\tau   101	R1092	1-247-688-11	CARBON		5% (KV-32)	1/4W F		W.FIF.CICI.u.						
R1102   1-249-393-11   CARBON   10   57   1/4W   1133   1-249-441-11   CARBON   10   57   1/4W   1134   1-249-435-11   CARBON   20   57   1/4W   1135   1-249-435-11   CARBON   20   20   20   20   20   20   20   2	R1094	1-249-405-11	CARBON		5%			<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td></td></cap<>	ACITOR>					
R1102   1-249-393-11   CARBON   10   57   1/4W   1133   1-249-441-11   CARBON   10   57   1/4W   1134   1-249-435-11   CARBON   20   57   1/4W   1135   1-249-435-11   CARBON   20   20   20   20   20   20   20   2	R1099	1-249-413-11	CARBON	470	5% 5%	1/4W	C1152	1-102-074-00				10%		
R1103   -249-441-11   CABBON   10   5%   1/49   1124-598-11   ELECT   22MF   20%   25%	RIIOI	1-249-405-11			5%	1/4W	C1155	1-126-103-11	ELECT	470MF	2	20%	16V	
R1106   1-249-435-11   CARBON   33K   (X-3_1/48)   CI165   1-126-30-11   ELECT   1MF   20\( X-50\)   CI166   1-126-301-11   ELECT   1MF   20\( X-50\)   CI166   1-126-301-11   ELECT   1MF   20\( X-50\)   CI166   1-126-301-11   ELECT   1MF   20\( X-50\)   CI167   1-126-301-11   ELCT   1MF   20\( X-50\)   CI167   CI1					(KV-32)	(BR36 (US/CND))	C1160	1-124-598-11		22MF	. 2	20%	25 <b>v</b>	
RI108   1-249-434-11   CARBON   27K   5X   1/4W   CKY-32XB36 (US/CND)   C1167   1-126-301-11   ELECT   IMF   20X   50V   C1167   1-126-301-11   ELECT   IMF   20X   50V   C1167   1-126-301-11   ELECT   IMF   20X   50V   CKY-32XB36 (US/CND)					(KV-32X	(BR36 (US/CND))	C1164	1-126-103-11	ELECT	470MF	2	20%	16V	
R1108   1-249-435-11   CARBON   33K   5X   1/4W   CLUB	#1100	1-249-435-11	CARBON	33K	(KV-32)	1/4W (BR36(US/CND))	C1166	1-126-301-11	ELECT	1MF	2	20%	50V	
R1109   1-249-435-11   CARBON   33K   5%   1/4W   (KY-32XBR36(US/CND))   (KY-32XBR36(US/C	R1108	1-249-434-11	CARBON		5% (KV-32X	1/4W (BR36(US/CND))								
R1110   1-249-405-11   CARBON   200   5%   1/4W	R1109	1-249-435-11	CARBON	33K	5%	1/4W		1 100 301 11	22201	L / 111	-	10/10	301	
R1114 1-249-434-11 CARBON 27K 5% 1/4W (KY-32XBR36(US/CND)) 220 5%				100	5%			<dio< td=""><td>DE&gt;</td><td></td><td></td><td></td><td></td><td></td></dio<>	DE>					
R1115 1-249-409-11   CARBON   220   5%   1/4W   (KV-32XBB36(US/CND))   220					(KV-32X	(BR36(US/CND))	D1158	8-719-110-36	DIODE RD13ES	-B2				
R1116   1-249-441-11   CARBON   100K   5%   1/4W   1160   1-249-393-11   CARBON   100K   5%   1/4W   1160   1-249-393-11   CARBON   100K   5%   1/4W   1160   1-249-413-11   CARBON   100K   5%   1/4W   (KV-32XBR36(US/CND))   1167   8-719-110-36   110DR R013BS-B2   1168   8-719-110-36   110DR R013BS-B2   1169					(KV-32X	(BR36(US/CND))	D1160	8-719-110-36	DIODE RD13ES	-B2				
R1116   1-249-441-11   CARBON   100   5%   1/4W   (KV-32XBR36(US/CND))   10166   8-719-110-36   100B   R0138S-B2   10167   8-719-110-36   100B   R0138S-B2   10168   8-719-110-36   100B   R0138S-B2   10168   10168   10168   101	1,1117	1 247 407 11	CARBON	440	(KV-32X									
R1118 1-249-413-11 CARBON	R1116 R1117	1-249-441-11 1-249-393-11		100K 10	5% 5%	1/4W	D1165	8-719-110-36	DIODE RD13ES	-B2				
R1120	R1118	1-249-413-11	ÇARBON		(KV-32X	(BR36(US/CND)) 1/4W	D1167	8-719-110-36	DIODE RD13ES	-B2				
R1120 1-249-413-11 CARBON 470 5½ 1/4W (KV-32XBR36(US/CND))  R1121 1-249-403-11 CARBON 100 5½ 1/4W (KV-32XBR36(US/CND))  R1133 1-249-405-11 CARBON 100 5½ 1/4W J1006 1-573-970-11 BLOCK, (S) TERMINAL (V1 IN)  R1134 1-249-405-11 CARBON 100 5½ 1/4W J1006 1-573-970-11 BLOCK, (S) TERMINAL (V2/V3 IN)  R1137 1-249-411-11 CARBON 330 5½ 1/4W J1006 1-573-970-11 BLOCK, (S) TERMINAL (V2/V3 IN)  R1138 1-249-415-11 CARBON 680 5½ 1/4W J1006 1-573-970-11 BLOCK, (S) TERMINAL (V0 IN)  R1140 1-249-415-11 CARBON 470 5½ 1/4W J1006 1-573-970-11 BLOCK, (S) TERMINAL (V1 IN)  R1141 1-249-415-11 CARBON 470 5½ 1/4W J1006 1-573-970-11 BLOCK, (S) TERMINAL (V2/V3 IN)  R1142 1-249-415-11 CARBON 470 5½ 1/4W J1006 1-573-970-11 BLOCK, (S) TERMINAL (V1 IN)  R1140 1-249-415-11 CARBON 470 5½ 1/4W J1006 1-573-970-11 BLOCK, (S) TERMINAL (V1 IN)  R1141 1-249-415-11 CARBON 470 5½ 1/4W J1006 1-573-969-11 JACK BLOCK, PIN (AUDIO OUT (FIXED))  R1142 1-249-415-11 CARBON 470 5½ 1/4W R1142 1-249-415-11 CARBON 680 5½ 1/4W R1142 1-249-405-11 CARBON 100 5½ 1/4W R1143 1-249-405-11 CARBON 100 5½ 1/4W R1155 1-249-405-11 CARBON 470K 5½ 1/4W R1155 1-249-405-11 CARBON 680 5½ 1/4W R1166 1-247-895-00 CARBON 470K 5½ 1/4W R1150 1-249-405-11 CARBON 680 5½ 1/4W R1169 1-249-403-11 CARBON 680 5	K1119	1-249-441-11	CARBUN	100K	5% (KV-32X	1/4W (BR36(US/CND))	D1169	8-719-110-36	DIODE RD13ES	-B2				
R1121   1-249-441-11   CARBON   A70   5%   1/4W   (KV-32XBR36 (US/CND))	R1120	1-249-413-11	CARBON				ווועס	8-113-110-30	DIONE KNIZES	-62				
R1133 1-249-405-11 CARBON 100 5% 1/4W	R1121 R1122	1-249-441-11 1-249-413-11	CARBON CARBON	100K 470	5% 5%	1/4W 1/4W		<jac< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td></jac<>	-					
R1137 1-249-417-11 CARBON 30 5% 1/4W R1138 1-249-415-11 CARBON 680 5% 1/4W R1139 1-249-413-11 CARBON 470 5% 1/4W R1141 1-249-413-11 CARBON 470 5% 1/4W R1141 1-249-415-11 CARBON 470 5% 1/4W R1142 1-249-415-11 CARBON 680 5% 1/4W R1143 1-249-405-11 CARBON 100 5% 1/4W R1148 1-249-405-11 CARBON 100 5% 1/4W R1148 1-249-405-11 CARBON 100 5% 1/4W R1149 1-249-417-11 CARBON 100 5% 1/4W R1150 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5%	D1122	1 040 405 44	### ### ### ### ### ##################				J1004	1-695-049-11	BLOCK, (S) T BLOCK, (S) T	ERMINAL Erminal	(V1 IN (V2/V3	) IN)		
R1140 1-249-413-11 CARBON 470 5% 1/4W R1141 1-249-413-11 CARBON 470 5% 1/4W R1142 1-249-415-11 CARBON 680 5% 1/4W R1147 1-249-405-11 CARBON 100 5% 1/4W R1148 1-249-405-11 CARBON 100 5% 1/4W R1149 1-249-405-11 CARBON 100 5% 1/4W R1150 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-417-11 CARBON 100 5% 1/4W R1152 1-249-417-11 CARBON 100 5% 1/4W R1152 1-249-417-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-407-11 CARBON 100 5% 1/4W R1151 1-249-407-11 CARBON 100 5% 1/4W R1152 1-249-407-11 CARBON 100 5% 1/4W R1153 1-249-407-11 CARBON 470K 5% 1/4W R1166 1-247-895-00 CARBON 470K 5% 1/4W R1167 1-247-895-00 CARBON 470K 5% 1/4W R1168 1-247-895-00 CARBON 470K 5% 1/4W R1169 1-249-403-11 CARBON 68 5% 1/4W R1170 1-249-403-11 CARBON 68 5% 1/4W R1170 1-249-403-11 CARBON 68 5% 1/4W R1171 1-247-895-00 CARBON 470K 5% 1/4W	R1134	1-249-405-11	CARBON	100	5% 5%	1/4W	J1006	1-573-970-11	BLUCK, (S) T	ERMINAL	TINUM)	OK OUT	).	
R1140 1-249-413-11 CARBON 470 5% 1/4W R1141 1-249-413-11 CARBON 470 5% 1/4W R1142 1-249-415-11 CARBON 680 5% 1/4W R1147 1-249-405-11 CARBON 100 5% 1/4W R1148 1-249-405-11 CARBON 100 5% 1/4W R1149 1-249-405-11 CARBON 100 5% 1/4W R1150 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-417-11 CARBON 100 5% 1/4W R1152 1-249-417-11 CARBON 100 5% 1/4W R1152 1-249-417-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-407-11 CARBON 100 5% 1/4W R1151 1-249-407-11 CARBON 100 5% 1/4W R1152 1-249-407-11 CARBON 100 5% 1/4W R1153 1-249-407-11 CARBON 470K 5% 1/4W R1166 1-247-895-00 CARBON 470K 5% 1/4W R1167 1-247-895-00 CARBON 470K 5% 1/4W R1168 1-247-895-00 CARBON 470K 5% 1/4W R1169 1-249-403-11 CARBON 68 5% 1/4W R1170 1-249-403-11 CARBON 68 5% 1/4W R1170 1-249-403-11 CARBON 68 5% 1/4W R1171 1-247-895-00 CARBON 470K 5% 1/4W	R1138	1-249-415-11	CARBON	680	5% 5%	1/40							• •	
R1141 1-249-413-11 CARBON 470 5% 1/4W R1142 1-249-405-11 CARBON 680 5% 1/4W R1148 1-249-405-11 CARBON 100 5% 1/4W R1148 1-249-405-11 CARBON 100 5% 1/4W R1149 1-249-405-11 CARBON 100 5% 1/4W R1150 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-407-11 CARBON 100 5% 1/4W R1151 1-249-407-11 CARBON 470K 5% 1/4W R1169 1-249-407-11 CARBON 68 5% 1/4W R1169 1-249-407-11 CARBON 68 5% 1/4W R1170 1-249-407-11 CARBON 68 5% 1/4W R1171 1-247-895-00 CARBON 470K 5% 1/4W					- 10		31000	1-3/2-909-11	JACA DLUCK,	LIU (NOT	זנט סמנ	(VAK))		
R1149 1-249-417-11 CARBON 1K 5% 1/4W R1150 1-249-405-11 CARBON 100 5% 1/4W R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-417-11 CARBON 100 5% 1/4W R1152 1-249-417-11 CARBON 1K 5% 1/4W R1168 1-247-895-00 CARBON 470K 5% 1/4W R1168 1-247-895-00 CARBON 470K 5% 1/4W R1169 1-249-403-11 CARBON 68 5% 1/4W R1170 1-249-403-11 CARBON 68 5% 1/4W R1171 1-247-895-00 CARBON 470K 5% 1/4W R1171 1/2W R1171 1/2W R1171 1/2W R1171 1/	R1141 R1142	1-249-413-11 1-249-415-11	CARBON CARBON	470 680	5% 5%	1/4W		<res.< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td><td></td><td></td></res.<>	ISTOR>					
R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-417-11 CARBON 1K 5% 1/4W R1167 1-247-895-00 CARBON 470K 5% 1/4W R1168 1-247-895-00 CARBON 470K 5% 1/4W R1169 1-249-403-11 CARBON 68 5% 1/4W R1170 1-249-403-11 CARBON 68 5% 1/4W R1171 1-247-895-00 CARBON 470K 5% 1/4W		1-249-405-11 1-249-405-11		100 100	5% 5%		R1155	1-249-417-11	CARBON	68 1K	5% 5%	1/4W		
R1151 1-249-405-11 CARBON 100 5% 1/4W R1152 1-249-417-11 CARBON 1K 5% 1/4W R1167 1-247-895-00 CARBON 470K 5% 1/4W R1168 1-247-895-00 CARBON 470K 5% 1/4W R1169 1-249-403-11 CARBON 68 5% 1/4W R1170 1-249-403-11 CARBON 68 5% 1/4W R1171 1-247-895-00 CARBON 470K 5% 1/4W					5%		R1165	1-247-895-00	CARBON	470K 470K	5% 5%	1/4W		
R1168 1-247-895-00 CARBON	R1151	1-249-405-11	CARBON	100	5% 5%	1/4W								
CONNECTURS    R1170 1-249-403-11 CARBON 68 5% 1/4W   R1171 1-247-895-00 CARBON 470K 5% 1/4W   W   W   W   W   W   W   W   W   W							R1168	1-247-895-00 1-249-403-11	CARBON	68	57	1/4W		
U-12 1-573-30U-11 CUNNECTUR, BUARD TO BOARD 18P	II10			4BP ==	DO 1 PC	100	R1170	1-249-403-11	CARBON	68 470K	5% 5%	1/4W		
	U-13	1-573-300-11	CONNECTOR, BO	ARD TO	BOARD	18P	R1172	1-247-895-00	CARBON	470K	5%	1/4W		

## UTS

REF.NO. P	ART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R1174 1 R1175 1 R1176 1	-247-804-11	CARBON CARBON CARBON CARBON CARBON	75 470K 470K 75 470K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		D3444	<dio 8-719-404-46</dio 					
R1180 1 R1181 1 R1183 1	-247-895-00	CARBON CARBON CARBON CARBON CARBON	470K 75 75 470K 470K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		IC3401 IC3402 IC3441 IC3442	<1C> 8-759-403-44 8-759-070-42 8-759-081-30 8-759-084-12	IC MN1280-S IC M37201M6-A IC MC78L05ACP IC LA7945	18FP RP			
R1186 1 R1188 1 R1191 1		CARBON	470K 470K 75 4.7K 4.7K	5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	:	163443	8-759-158-03 8-759-403-44 <001	IC MN1280-S				
R1194 1	-215-437-00 -215-437-00 -249-426-11	METAL	4.7K 4.7K 5.6K	1% 1% 5%	1/4W 1/4W 1/4W		L3401 L3461 L3462	1-408-421-00 1-408-409-00 1-408-421-00	INDUCTOR INDUCTOR INDUCTOR	100UI 10UH 100UI	H H		
	<s₩i'< td=""><td>TCH&gt;</td><td></td><td></td><td></td><td></td><td><u> </u></td><td>/TD:</td><td>NSISTOR&gt;</td><td></td><td></td><td></td><td></td></s₩i'<>	TCH>					<u> </u>	/TD:	NSISTOR>				
S1150 1		SWITCH, KEÝBO	ARD				Q3441 Q3444	0_720_422_27	TRANSISTOR 2S TRANSISTOR FM	D601A-	Q		
		NECTOR>						/DP6	SISTOR>				
UT-11 *1 UT-22 *1 UT-23 *1	-564-519-11  -566-941-11  -566-641-11	PLUG, CONNECT PLUG, CONNECT CONNECTOR, HI CONNECTOR, HI PLUG, CONNECT	OR 4P INGE (T INGE (T	'AB) 3 'AB) 1	30P 18P		R3401 R3402 R3403 R3404	1-216-049-00 1-216-049-00 1-216-073-00 1-216-033-00 1-216-057-00		1 K 1 K 1 O K 220	555555555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W	
UT-38 *1	1-564-517-11	PLUG, CONNEC	OR 2P				R3405	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
		**************************************	PLETE	****	******	******	R3407 R3408 R3409	1-216-065-00 1-216-033-00 1-216-065-00 1-216-033-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 220 4.7K 220 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td>R3442 R3443</td><td>1-216-041-00 1-216-041-00</td><td>METAL GLAZE METAL GLAZE</td><td>470 470</td><td>5% 5%</td><td>1/10W 1/10W</td><td></td></cap<>	ACITOR>					R3442 R3443	1-216-041-00 1-216-041-00	METAL GLAZE METAL GLAZE	470 470	5% 5%	1/10W 1/10W	
C3408 1 C3409 1	1-164-232-11 1-124-477-11 1-124-034-51	CERAMIC CHIP CERAMIC CHIP ELECT ELECT	0.01MF 47MF 33MF	7	10% 10% 20% 20%	50V 50V 16V 16V	R3444 R3445 R3446	1-216-077-00 1-216-689-11 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 39K 33K	52 52 52 52 52	1/10W 1/10W 1/10W 1/10W	
C3446 C3447 C3448	1-163-129-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	330PF 100PF 0.015	MF.	10% 5% 5% 10%	50V 50V 50V 50V 50V	R3450 R3451 R3452 R3453	1-216-073-00 1-216-057-00 1-216-093-00 1-216-079-00 1-216-679-11	METAL GLAZE METAL GLAZE METAL GLAZE	10K 2.2K 68K 18K 15K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C3450 C3451 C3452 C3453	1-163-109-00 1-164-004-11 1-163-989-11 1-124-477-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	47PF 0.1MF 0.033I 47MF		10% 10% 20% 20%	50V 25V 25V 16V 50V	R3454 R3455 R3456 R3463 R3464	1-216-049-00 1-216-057-00 1-216-077-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 2.2K 15K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C3455 C3456 C3457 C3459	1-126-162-11 1-126-163-11 1-163-129-00 1-163-117-00 1-124-477-11	ELECT ELECT CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	100PF 47MF		20% 5% 5% 20%	50V 50V 50V 16V 50V	R3465 R3472 R3473 R3474 R3504	1-216-073-00 1-216-091-00 1-216-025-00 1-216-295-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 56K 100 0 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C3461 C3507 C3508 C3509 C3515	1-163-099-00 1-163-099-00 1-164-232-11 1-164-005-11 1-163-139-00 1-163-121-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	18PF 0.01M 0.47M 820PF 150PF	F	5% 5% 10%	50V 50V 25V 50V 50V	İ	1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 100 2.7K 2.7K 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C3540	1-126-157-11	ELECT	10MF		20%	167	R3519 R3520	1-216-049-00 1-216-049-00		1K 1K	5% 5%	1/10W	

REMARK

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.		DESCRIPT	ION				REMARK	REF.NO.	PART NO.
R3521 R3525 R3526 R3528 R3529	1-216-049 1-216-295 1-216-073 1-216-295 1-216-295	-00 -00	METAL GLA METAL GLA METAL GLA METAL GLA	AZE AZE AZE	1K 0 10K 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			1-693-113
R3530 R3531 R3532 R3535 R3537	1-216-073 1-216-073 1-216-073 1-216-033 1-216-295	-00 -00 -00	METAL GLA METAL GLA METAL GLA METAL GLA METAL GLA	ZE ZE ZE	10K 10K 10K 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			1-693-114 9-902-719 9-998-214
R3540	1-216-073	-00	METAL GLA	ZE	10K	5%	1/1 <b>0</b> W			
•		<conn< td=""><td>ECTOR&gt;</td><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td></conn<>	ECTOR>					•		
S-42 : S-43 : S-45 :	*1-568-378 *1-565-514 *1-564-508 *1-564-511 *1-564-506	-11 -11 -71	PIN, CONN SOCKET, C PLUG, CON PLUG, CON PLUG, CON	ONNECTO NECTO NECTO	CTOR 2 OR 5P OR 8P	P				
S-47 ×	<b>1−564−506</b>	-11	PLUG, CON	NECT	OR 3P				<u> </u>	
		<crys< td=""><td>TAL&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></crys<>	TAL>							
X3401 X3441	1-577-358 1-577-364		VIBRATOR, VIBRATOR,						 	
*****	*******	MISC	********* ELLANEOUS *******		****	****	*******	******		
Δ Δ	. 1-402-952 . 1-417-178	-11 -11	COTL, DEN Selector,	AGNE' ANTI	ITATI BNNA (	AS-2)				
Å	1-451-315 1-452-032		DEFLECTION MAGNET, D			4FXA)	2XBR36(U	S/CND))		
	1-452-094 1-452-579 1-544-544 1-544-580 1-555-400	-11 -21 -11	MAGNET, R NECK ASSY SPEAKER ( SPEAKER ( CABLE, PI	10CM) 2.5CI	TURE	ISK; Tube	15MM ø (NA322)			
Δ	*1-557-056 1-561-306 1-696-002 A-4546-02	-00 -12	CABLE, P- JACK, PIN CORD, PON TRANSHITT	(F) ER(W	(KV-3 ITH NO	2XBR2 1SE F 02	6 (US/CND)	1,000.00		
wia alimin	A-4546-02	8-A	LUMINOUS	UNIT	IFP-D		2 <b>XBR36 (</b> U:	S/CND))		
and and and	.8-733-723				* 111/08/08/08/08/08				Marie Common	
						~~~~			1	

ACCESSORIES AND PACKING MATERIALS

\*4-035-985-01 \*4-035-986-01 \*4-035-991-01 \*4-384-027-01

3-757-071-21 MANUAL, INSTRUCTION (ENGLISH)
3-757-071-31 MANUAL, INSTRUCTION (FRENCH)
(KY-32XBR26 (CND)/32XBR36 (CND)
3-757-071-41 MANUAL, INSTRUCTION (SPANISH)
(KY-32XBR26 (US)/32XBR36 (US)

CUSHION (UPPER) (ASSY)
CUSHION (LOWER) (ASSY)
INDIVIDUAL CARTON
BAG, PROTECTION
HEADPHONE TDR-IF310 (KV-32XBR36(US/CND))

## REMOTE COMMANDER

DESCRIPTION

1-693-113-21 REMOTE COMMANDER (RM-Y113A) (KV-32XBR36(US/CND))
1-693-114-21 REMOTE COMMANDER (RM-Y112A) (KV-32XBR26(US/CND))
9-902-719-01 COVER (FOR RM-Y112A, Y113A)
9-998-214-01 COVER BATTERY (FOR RM-Y112A, Y113A)

**— 159 —** 

MEMO		•	•			
				·	· · · · · · · · · · · · · · · · · · ·	
						••••
	***************************************					
	*****					
	,		·			
	·					
	`					
			1			
				•		
	•••••					

## **ACCESSORY**

## TDR-IF310

### **SPECIFICATIONS**

General

Modulation system Carrier frequency

system Frequency modulation uency Right 2.8 MHz

Effective range

requency response

Frequency response Distortion

Left 2.3 MHz Up to approx. 7 m

(23 ft.) 18 – 22,000 Hz

Less than 1% at

Headphones MDR-IF310

Power source

DC 3 V, 2 × R6 (size

AA) battery

Weight

Approx. 170 g (6.0 oz.)

incl. batteries

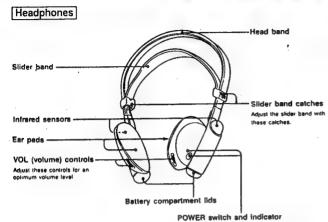
Design and specifications subject to change without notice.

## **CORDLESS STEREO HEADPHONES**

## **SECTION 1 GENERAL**

This section is extracted from instruction manual.

## **Parts Identification**



Press the POWER switch The indicator lights up To lurn off the power, press it again. When approximately 3 hours have elapsed without the unit being used, the POWER switch will be turned off automatically III avoid unnecessary battery wear.

## Power Source of the Headphones

Use two R6 (size AA) batteries for the headphones. Be sure fit use the same type of batteries for both right and left battery compartments.

When the batteries become weak The POWER indicator dims, and a hissing noise increases. In such a case, replace both

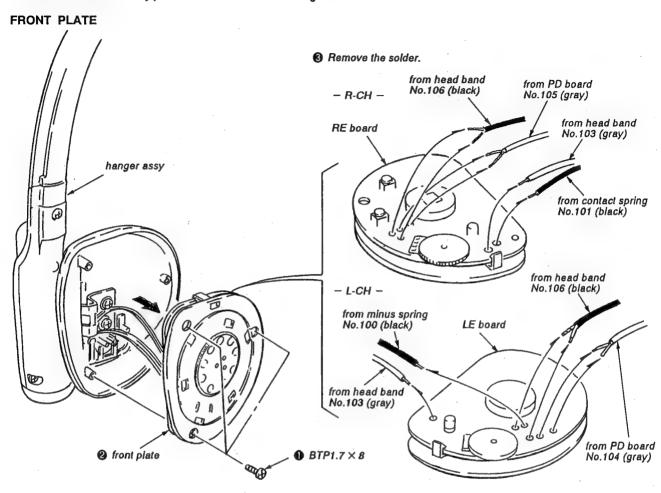
The approximate battery life for continuous operation is as follows

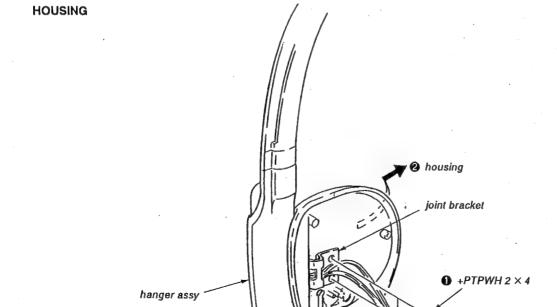
Sony alkaline battery AM3(N) 120 hours Sony battery SUM-3(NS). 60 hours

# **Battery Installation** Open both battery compartments' lids. $\mathbf{2}$ Insert the batteries with the correct polarity. 3 Close the battery compartments' flds.

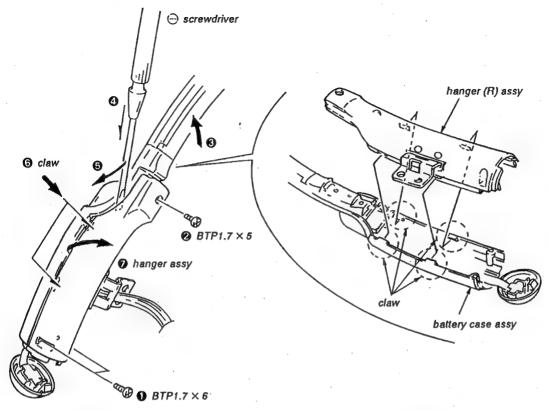
## SECTION 2 DISASSEMBLY

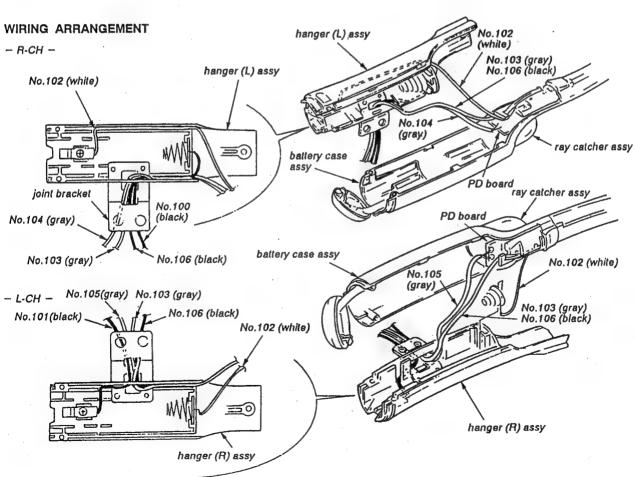
Note: Follow the disassembly procedure in the numerical order given.





### **HANGER**





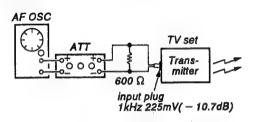
## **SECTION 3 ADJUSTMENTS**

- 1. On adjusting, use the transmitter TV set.
- 2. L-ch adjustment should be completed before performing R-ch adjustment.

0 dB = 0.775 V

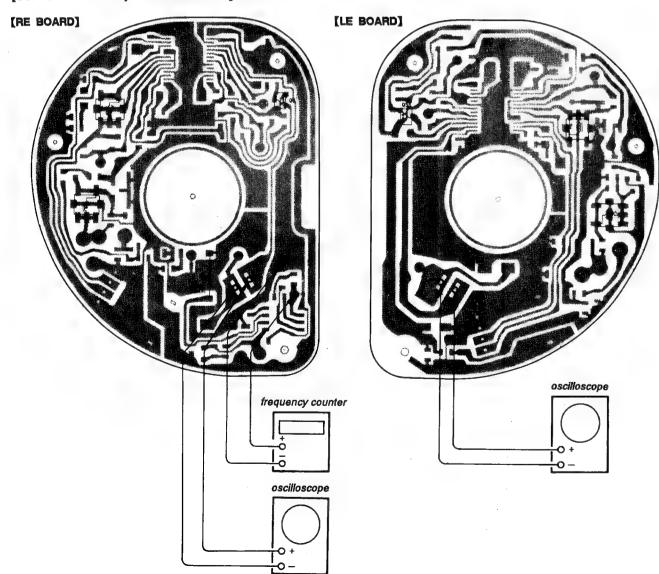
### [Receiving Frequency Adjustment]

## Preparation:



- 1. Feed a signal to TV set and connect a power supply.
- Volume control: Optional position.
- 3. Short-circuit: Q3 (Q53) Base Emitter (Ground)

## [Connection and Adjustment Location]



### Procedure:

- I. Connect a oscilloscope to SP1 or SP51.
- 2. Turn on the power switch on the headphones.
- 3. Adjust to make minute input level with changing the direction of the emitting position of jig so that the noise appears on the waveform.
- 4. Adjust with L5 (L-ch) or L55 (R-ch) to maximize the reading on the
- 5. Adjust with L1 (L-ch) or L51 (R-ch) to maximize the reading on the oscilloscope.
- Release the short-circuit position. Q3 (Q53) Base - Emitter (Ground)

## [Timer Clock Frequency Check]

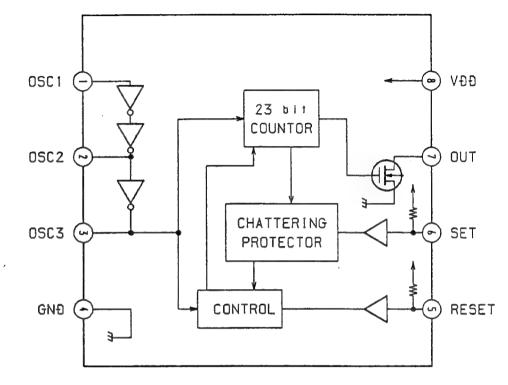
- Connect a frequency counter to TP2 and TP (GND).
- 2. Check the reading on the frequency counter becomes to the checking

Checking value: 300 Hz - 390 Hz.

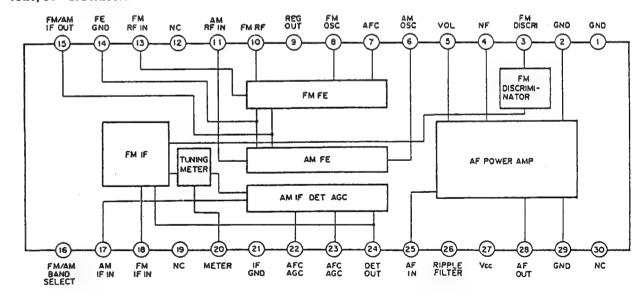
## **SECTION 4 DIAGRAMS**

### • IC Block Diagrams

### IC2 BU2305F



### IC21, 51 CXA1280N



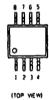
## 4-1. PRINTED WIRING BOARDS

## • Semiconductor Location

Ref. No.	Location
D1	G-3
D2	E-2
D52	D-12
IC1	C-4
IC2	H-5
IC51	D-10
PH101	A-5, A-8
PH102	A-6, A-9
Q2	H-4
Q3	D-5
Q4	D-4
Q5	D-5
Q51	E-13
Q53	D-9
Q54	C-9
Q55	D-9

## • Semiconductor Lead Layout

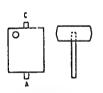




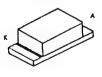
## CXA1280N

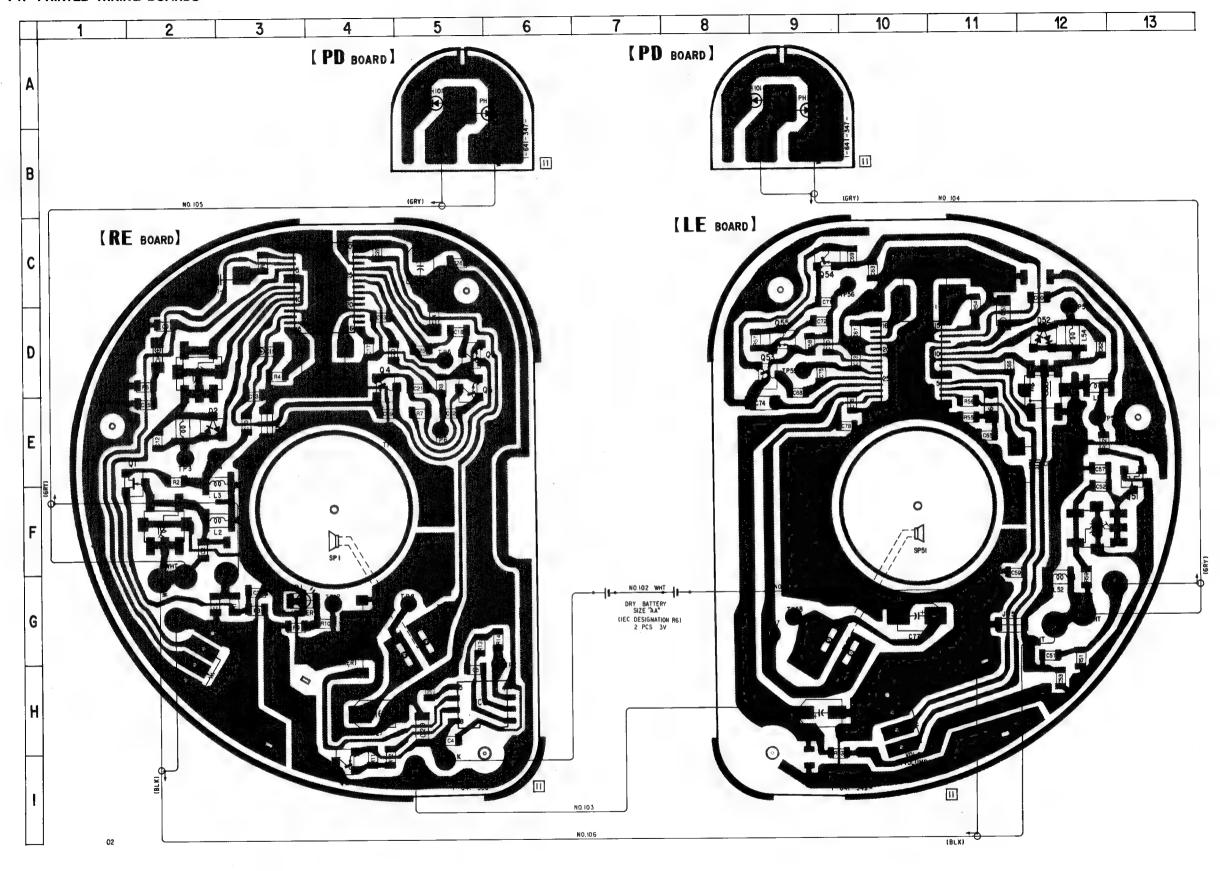


## PP601-1



## CL-150R-CD

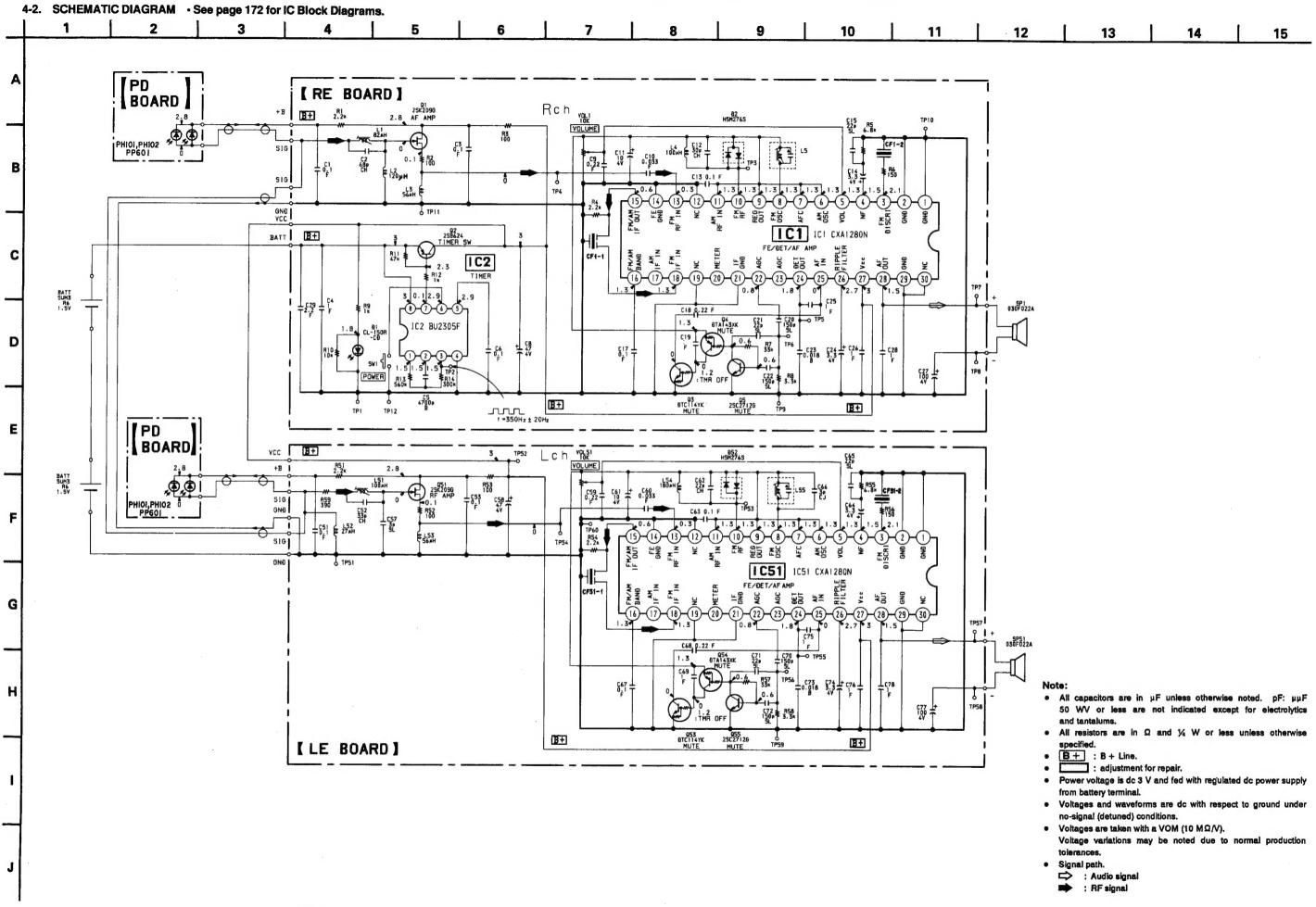




### Note:

o : parts extracted from the component side.
 : Through hole.

Pattern on the side which is seen.



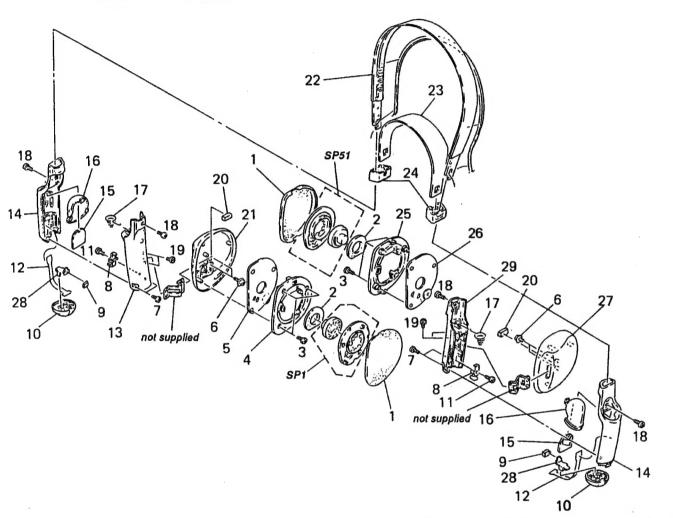
## **SECTION 5 EXPLODED VIEW**

### NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original
- Color Indication of Appearance Parts Example: KNOB, BALANCE (WHITE) ... (RED)

Parts Color Cabinet's Color

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering
- The mechanical parts with no reference number in the exploded views are not supplied.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	4-947-791-01	PAD, EAR		16		COVER, RAY CATCHER	
* 2	4-948-895-01	DAMPER		17		SPRING, MINUS	
3		SCREW (B1.7X8), TAPPING		18		SCREW (B1.7X6), TAPPING	
* 4		PLATE (R), FRONT		19	7-627-852-28	SCREW +P 1.7X3	
<b>*</b> 5		RE BOARD, COMPLETE		20	4-947-796-01	CUSHION	
6	3-313-392-01	SCREW (2X4), + PTPWH		21		HOUSING (R) ASSY	
7		SCREW (B1.7X6), TAPPING		* 22	4-947-809-01	BAND, HEAD	
8		SPRING, CONTACT		* 23	4-947-798-01	BAND, SLIDER	
9		CUSHION		24	4-947-801-01	KNOB, SLIDER	
10		LID, BATTERY CASE		* 25	4-947-812-01	PLATE (L), FRONT	
11	7_627_552_07	SCREW (M1.7X2.5), TAPPING		* 26	A-4542-061-A	LE BOARD, COMPLETE	
12	4-947-789-01			27	4-947-804-01		
13	4-947-810-01			28		TERMINAL, PLUS	
				29	4-947-811-01		
14		CASE, BATTERY		SP1		DRIVER UNIT (03F022A)	
* 15	1-641-347-11	PC BOARD, PD				DRIVER UNIT (03F022A)	
				SP51	1-202-111-11	DILITER ONLY (OULDER)	

## RE

## **SECTION 6 ELECTRICAL PARTS LIST**

### NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- · -XX and -X mean standardized parts, so they may have some difference from the original
- RESISTORS
   All resistors are in ohms.
   METAL: Metal-film resistor
   METAL OXIDE: Metal Oxide-film resistor
   F: nonflammable
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS In each case, u:  $\mu$ , for example: uA...: μA..., uPA...: μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD...
- CAPACITORS uF: μF
- COILS uH: μH

When in	cluding	parts	by re	ference
number, name.	please	includ	e the	board

EF.NO. PART NO.		DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*[-64]-34	<0100	*******	•		L51 L52 L53 L54 L55	1-424-333-11 1-410-386-11 1-410-390-11 1-410-657-21 1-406-436-11	COIL INDUCTOR CHIP 27UH INDUCTOR CHIP 56UH INDUCTOR CHIP 180UH COIL (OSC)	
PII102 8-719-97	75-20	PHOTO DIODE PP601-1				<tra< td=""><td>NSISTOR&gt;</td><td></td></tra<>	NSISTOR>	
		LE BOARD, COMPLETE	*******	******	Q51 Q53 Q54 Q55	8-729-900-52 8-729-906-45	TRANSISTOR 2SK209-G TRANSISTOR DTC114YK TRANSISTOR DTA143XK TRANSISTOR 2SC2712-YG	
1-578-7	17-71	FILTER, CRYSTAL				.000	· aman	
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td>,,,</td><td></td><td>ISTOR&gt;</td><td>1/8W</td></cap<>	ACITOR>			,,,		ISTOR>	1/8W
C52 1-163-2 C53 1-163-0 C57 1-163-0	39-11 38-00 86-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 33PF CERAMIC CHIP 0.1MF CERAMIC CHIP 3PF ELECT CHIP 47MF	5% 0.25PF 20%	25V 50V 25V 50V 4V	JW51 R51 R52 R53 R54	1-216-296-00 1-216-057-00 1-216-025-00 1-216-025-00 1-216-057-00	METAL GLAZE 0 5% METAL GLAZE 2.2K 5% METAL GLAZE 100 5% METAL GLAZE 100 5% METAL GLAZE 2.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
C58	22-11 34-00 01-11 235-11	CERAMIC CHIP 0.22MF CERAMIC CHIP 0.033MF TANTAL. CHIP 10MF CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF	20% 5%	25V 50V 4V 50V 25V	R55 R56 R57 R58 R59	1-216-069-00 1-216-029-00 1-216-085-00 1-216-061-00 1-216-039-00	METAL GLAZE 6.8K 5% METAL GLAZE 150 5% METAL GLAZE 33K 5% METAL GLAZE 3.3K 5% METAL GLAZE 390 5%	1/10W 1/10W 1/10W 1/10W 1/10W
C64 1-135-1		TANTAL. CHIP 3.3MF	20%	44		<va< td=""><td>HABLE RESISTOR&gt;</td><td></td></va<>	HABLE RESISTOR>	
C65 1-163-1 C66 1-163-2 C67 1-163-0 C68 1-164-2	101-00 220-11 138-00	CERAMIC CHIP 22PF CERAMIC CHIP 3PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF	5% 0.25PF	50V 50V 25V 25V	1		RES, VAR, CARBON 10K	********
C69 1-164-3	346-11	CERAMIC CHIP INF		167		*A-4542-062-A	RE BOARD, COMPLETE	
C70 1-163-1 C71 1-163-1 C72 1-163-1 C73 1-163-0	101-00 121-00	CERAMIC CHIP 150PF CERAMIC CHIP 22PF CERAMIC CHIP 150PF CERAMIC CHIP 0.018MF	5% 5% 5% 10%	50V 50V 50V 50V		1-578-717-71	FILTER, CRYSTAL	
	180-21	TANTAL. CHIP 3.3MF	20%	44		<ca< td=""><td>PACITOR&gt;</td><td></td></ca<>	PACITOR>	
C76 1-164-3	346-11 209-11	CERAMIC CHIP 1MF CERAMIC CHIP 1MF ELECT CHIP 100MF CERAMIC CHIP 1MF	20%	16V 16V 4V 16V	C1 C2 C3 C4	1-163-113-00 1-163-038-00 1-164-346-11	CERAMIC CHIP IMF	25V 50V 25V 16V
	<010	DDE>			C5	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
D52 8-719-9	946-33	DIODE HSM276S			C6 C8 C9 C10	1-163-038-00 1-126-607-11 1-164-222-11 1-163-989-11	ELECT CHIP 47MF CERAMIC CHIP 0.22MF CERAMIC CHIP 0.033MF	25V 20% 4V 25V 10% 25V 20% 4V
lore a pro-	(1C)				C11	1-135-201-11 1-163-104-00		20% 4V 5% 50V
1051 8-759-0	605-59 <001	1C CXA1280N  L>			C13 C14 C15	1-163-164-00 1-163-038-00 1-135-180-21 1-163-101-00	CERAMIC CHIP 0.1MF TANTAL, CHIP 3.3MF	25V 20% 4V 5% 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C17 C18 C19 C20 C21	1-163-038-00 1-164-222-11 1-164-346-11 1-163-121-00 1-163-101-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.22MF CERAMIC CHIP 1MF CERAMIC CHIP 150PF CERAMIC CHIP 22PF 5%	25V 25V 16V 50V 50V
C22 C23 C24 C25 C26	1-163-121-00 1-163-024-00 1-135-180-21 1-164-346-11 1-164-346-11	CERAMIC CHIP 150PF 5% CERAMIC CHIP 0.018MF 10% TANTAL, CHIP 3.3MF 20% CERAMIC CHIP 1MF CERAMIC CHIP 1MF	50V 50V 4V 16V 16V
C27 C28 C29	1-126-209-11 1-164-346-11 1-164-337-11	ELECT CHIP 100MF 20% CERAMIC CHIP 1MF CERAMIC CHIP 2.2MF	4V 16V 16V
	<010	DE>	
D1 D2	8-719-989-22 8-719-946-33	DIODE CL-150R-CD DIODE HSM276S	
	<10	•	
1 C1 1 C2	8-759-605-59 8-759-044-56	1C CXA1280N 1C BU2305F	
	<co< td=""><td>IL&gt;</td><td></td></co<>	IL>	
L1 L2 L3 L4 L5	1-424-334-11 1-410-655-31 1-410-390-11 1-410-393-11 1-406-436-11	COIL INDUCTOR CHIP 120UH INDUCTOR CHIP 56UH INDUCTOR CHIP 100UH COIL (OSC)	
	<tr< td=""><td>ANSISTOR&gt;</td><td></td></tr<>	ANSISTOR>	
Q1 Q2 Q3 Q4 Q5	8-729-220-93 8-729-141-48 8-729-900-52 8-729-906-45 8-729-230-49	TRANSISTOR 2SB624-BV345 TRANSISTOR DTC114YK TRANSISTOR DTA143XK	
	<re< td=""><td>S1STOR&gt;</td><td></td></re<>	S1STOR>	
JWI R1 R2 R3 R4	1-216-296-00 1-216-057-00 1-216-025-00 1-216-025-00 1-216-057-00	METAL GLAZE 100 5% 1/10 METAL GLAZE 100 5% 1/10	)W )W
R5 R6 R7 R8 R9	1-216-069-00 1-216-029-00 1-216-085-00 1-216-061-00 1-216-049-00	METAL GLAZE 150 5% 1/10 METAL GLAZE 33K 5% 1/10 METAL GLAZE 3.3K 5% 1/10	)₩ )₩ )₩
R10 R11 R12 R13 R14	1-216-073-00 1-216-089-00 1-216-049-00 1-216-115-00 1-216-108-00	METAL GLAZE	DM DM DM
	<sw< td=""><td>HTCH&gt;</td><td></td></sw<>	HTCH>	
SWI	1-572-473-11	SWITCH, TACTIL	
	< V/	ARIABLE RESISTOR>	
VOL1	1-238-906-11	RES, VAR, CARBON 10K	